



**HALE PRODUCTS INC.**

**A Unit of IDEX Corporation**

May 7, 2010

TO: HALE MIDSHIP & LIGHT TRUCK CUSTOMERS

SUBJECT: NFPA Pump/Engine Combination List (Hale P/N 029-0020-52-0)

The engines on this list along with the pump gearbox ratio listed provides sufficient power for NFPA 1901 Pump Performance Ratings. Check with the engine manufacturer for their approval of the application. Refer to instruction sheet F-74, for proper interpretation of this list.

All recommendations are based on a 1:1 transmission gear lock-up ratio. Some transmissions lock-up in gear ratios other than 1:1, in which case this pump/engine combination list is not applicable.

Please check the ratios on this list against any pump orders that have not been shipped or pumps in your possession. If a particular model engine was scheduled to be used for an order and a different model was received, a new pump ratio may be required. If a change is necessary, notify Hale to make the revision.

Additional copies of this list are available upon request.

The latest version of this list is maintained on our website at [www.haleproducts.com](http://www.haleproducts.com)

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HALE PRODUCTS, INC.  
700 Spring Mill Avenue  
Conshohocken, PA 19428  
Attn: Communications Department

Please send \_\_\_\_\_ copies of the current NFPA Pump/Engine Combination List to:

NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY, STATE, ZIP: \_\_\_\_\_

**NOTE:** Information contained in this material is subject to change without notice.



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ECO NO	REV	CHANGED FROM	BY	DATE	APVD		
0419	H	UPDATED LIST	JFG	8/8/06	MAL		
0706	I	UPDATED LIST	PRW	3/17/08	MAL	<b>DRAWN BY:</b>	<b>PRW</b>
0869	J	UPDATED LIST; ADDED K GEARBOX INFO	JRP	05/07/10	PRW	<b>CHECKED BY:</b>	<b>MAL</b>

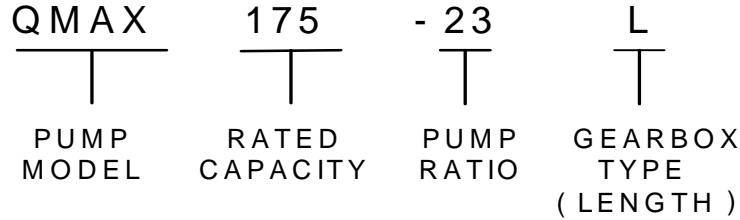
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**HALE MIDSHIP AND FRONT MOUNT FIRE PUMPS**  
**NFPA RATED PUMP/ENGINE COMBINATION**  
**INSTRUCTION SHEET**

1. This list shows pump and engine combinations based on stresses imposed on the pump and gearbox during pump operation. Engines also impose stress on the pump drive shaft during road operation. This stress is the maximum engine torque multiplied by the truck transmission highest forward gear ratio (first) and torque converter ratio, where applicable. This maximum torque load must be checked against the pump drive shaft limit according to the instructions on Form F-72. If a diesel engine is used, it may be necessary to install a dampening device between the engine and pump to absorb and suppress the torsional vibration inherent in some four-cycle diesel engines. All pumping operations impose a torque load on the engine output shaft and related equipment, which drives the pump. This is especially critical in front mount pump applications where the engine manufacturer has a lower torque limit on the front end of the crankshaft. After establishing maximum torque loads, submit the data to the engine and drive line manufacturers for their recommendation and approval of the application.
2. Front Mount Pump applications are best accomplished on chassis supplied by the manufacturer with a front engine PTO drive package. If the chassis you are considering is not available with this option, there is a possibility the engine is not designed for front drive applications, there is insufficient space to run a drive line to a pump or the torque requirements of the front mount pump exceeds the front crankshaft torque limits. Another consideration with Front Mount Pumps is the engine idle speed - the lower the speed, the longer the life of the clutch - up to 700 RPM is considered a normal idle speed. Contact Hale's Engineering Department and engine manufacturer for additional information on application.
3. The pump/engine combinations shown give adequate performance within allowable NFPA 1901 engine speeds at normal operating conditions based on the truck transmission being in direct drive (1:1 ratio). In most cases, other ratios can also be used. Due to the various models offered by each engine manufacturer, specifications such as rated horsepower, speed and torque for each engine must match this list in order to accurately check the pump ratio. In the case of low speed engines, it may be possible to obtain a rating not listed by using an overdrive gear position on the truck transmission, if overdrive is available. Information for engines not listed is available from Hale's Engineering Department upon request.
4. For elevations over 2000 feet, drafting requirements greater than a 10 foot lift, more than 20 feet of suction hose, or other special conditions, contact Hale's Engineering Department.
5. The Qpak, Qflo, Qmax, DSD, MG, 8FG/8FK, CSD and HFM series are single stage pumps. The Qtwo is a two-stage pump.
6. The use of the HP or 2HP high-pressure Pump option on midship pumps will impose an additional horsepower load. This load is present even when the Booster Pump is not discharging water. Before approving a pump-engine-booster combination, contact Hale's Engineering Department for a horsepower check at the NFPA 1901 rating spots.
7. All applications are based on summer diesel fuel sources. Some fuels are adjusted for winter weather or high altitude usage and may reduce engine performance by ten percent.
8. Pump winterization/heating jackets on the CSD and HFM front mount pump models is designed to operate at the normal engine cooling system temperature range of 180<sup>o</sup>/190<sup>o</sup>F. If the engine chassis/pump combination typically exceeds 190<sup>o</sup>F, the winterization/heating jacket should be made inoperable. The jacket should only be used when the CSD or HFM front mount pump is required to operate in extremely cold temperatures.
9. The Hale Pump/Engine Combination List is based on the latest horsepower-RPM curve as furnished by the engine manufacturer at the time of publication. To create a realistic net horsepower curve, Hale deducts additional horsepower to help cover most standard accessory items and other power consuming loads. A partial example would be; Power steering pump, fan engaged, alternator charging, air compressor (loaded), air cleaner, air temperature and barometer. NFPA 1901 requires all lights and air conditioner(s) to be operating during the pump test. Any added load on the engine may require a pump ratio recalculation to insure sufficient horsepower for testing. Please contact Hale's Engineering Department for assistance.
10. Midship pump applications require a true neutral position and no movement of the truck to ensure safe shifting from pump-to-road or road-to-pump. Pre-load or rotation when the transmission is in the neutral position, truck drifting or truck rolling during shifting can cause damage to the pump.

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- The CBP, AP, MG and PSD Power Take-Off driven series pumps are able to be NFPA rated. Please contact Hale's Engineering Department to evaluate your pumping application.
- The following information is provided to assist in developing a Hale Fire Pump model number. To obtain the proper pump for customer applications the Hale pump model number is comprised of four elements



The Hale pump model number illustrated above was determined by the use of the tables located in this list. A sample table is shown below with the pump model determination logic highlighted.

ENGINE	MANUFACTURER			SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE
	MODEL NUMBER			S1234	S1234	S1234	S1234	S1235	S1235	S1235	S1235	S1235
	DISPLACEMENT			629	629	629	629	728	728	728	728	728
	RATED HP			305	305	335	350	410	410	425	425	455
	GOVERNED SPEED			2100	2100	2100	2100	2100	2100	2100	2100	2100
	PEAK TORQUE			1050	1150	1250	1350	1450	1550	1450	1550	1550
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	<b>SINGLE STAGE</b>											
	QPAK50	500	L	23	23	23	23	23	23	23	23	23
	QPAK50	500	X	25	25	25	25	25	25	25	25	25
	QPAK75	750	L	23	23	23	23	23	23	23	23	23
	QPAK75	750	X	25	25	25	25	25	25	25	25	25
	QPAK100	1000	L	23	23	23	23	23	23	23	23	23
	QPAK100	1000	X	25	25	25	25	25	25	25	25	25
	QFLO75	750	L	23	23	23	23	23	23	23	23	23
	QFLO75	750	X	28	28	28	28	28	28	28	28	28
	QFLO100	1000	L	23	23	23	23	23	23	23	23	23
	QFLO100	1000	X	28	28	28	28	28	28	28	28	28
	QFLO125	1250	L	23	23	23	23	23	23	23	23	23
	QFLO125	1250	X	28	28	28	28	28	28	28	28	28
	QMAX100	1000	S or L	23	23	23	23	23	23	23	23	23
	QMAX100	1000	X	25	25	25	25	25	25	25	25	25
	QMAX125	1250	S or L	23	23	23	23	23	23	23	23	23
	QMAX125	1250	X	25	25	25	25	25	25	25	25	25
	QMAX150	1500	S or L	23	23	23	23	23	23	23	23	23
	QMAX150	1500	X	25	25	25	25	25	25	25	25	25
	QMAX175	1750	S or L	23	23	23	23	23	23	23	23	23
	QMAX175	1750	X	25	25	25	25	25	25	25	25	25
	QMAX200	2000	S or L	21	23	23	23	23	23	23	23	23
	QMAX200	2000	X		23	25	25	25	25	25	25	25
	QMAX225	2250	S or L					23	23	23	23	23
	QMAX225	2250	X					25	25	25	25	25
	DSD75	750	L	23	23	23	23	23	23	23	23	23
	DSD75	750	X	28	28	28	28	28	28	28	28	28
	DSD100	1000	L	23	23	23	23	23	23	23	23	23
	DSD100	1000	X	28	28	28	28	28	28	28	28	28
	DSD125	1250	L	23	23	23	23	23	23	23	23	23
	DSD125	1250	X	28	28	28	28	28	28	28	28	28
	DSD150	1500	L	23	23	23	23	23	23	23	23	23
	DSD150	1500	X	28	28	28	28	28	28	28	28	28
	MG50	500		30	30	30	30	30	30	30	30	30
	MG75	750		30	30	30	30	30	30	30	30	30
	MG100	1000		30	30	30	30	30	30	30	30	30
	<b>TWO STAGE</b>											
	QTW0100	1000	S or L	23	23	23	23	23	23	23	23	23
	QTW0100	1000	X	23	23	23	23	23	23	23	23	23
	QTW0125	1250	S or L	23	23	23	23	23	23	23	23	23
	QTW0125	1250	X	23	23	23	23	23	23	23	23	23
	QTW0150	1500	S or L	23	23	23	23	23	23	23	23	23
	QTW0150	1500	X	23	23	23	23	23	23	23	23	23

- The Pump/Engine Recommendation list has taken into account that some OEMs are setting the low idle higher than they have in the past. While not a significant issue for the single stage pumps the increased low idle speed causes a significant increase in pump discharge pressure of the Qtwo pump when operated in series (pressure) mode. The ratios selected for the Qtwo pumps are based on an idle setting of 800 RPM. This numerically lower ratio allows the pump to operate at lower pressure at idle but may limit the maximum pressure attainable due to engine speed limits. Additionally higher flow rated Qtwo pumps may not be available with the lower ratio. A supplemental Qtwo pump

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recommendation list is available which lists ratios suitable for idle setting of 800 RPM compared to idle setting of 600 RPM for higher ratings and pressures if required by the customer.

# MAXIMUM ALLOWABLE PUMP PRESSURE, ENGINE HORSEPOWER AND TORQUE LIMITS FOR HALE CENTRIFUGAL PUMPS

PUMP SERIES	MAXIMUM ALLOWABLE PRESSURE (PSI)		ENGINE LIMITS		
	HYDRODYNAMIC		HYDROSTATIC	GEARS MAX. GROSS HORSEPOWER FOR PUMPING	SHAFTS TORQUE CONSTANT FOR ROAD OPERATION (FT-LBS)
*Qtwo	VOLUME 300	PRESSURE 600	600	450 (G GEARBOX) 525 (K GEARBOX)	16000 (G GEARBOX) 18500 (K GEARBOX)
*Qmax, Qmid, Qflo, Qpak	600				
*8FG/8FK	400		500	450 (G GEARBOX)	16000 (G GEARBOX)
*DSD	400		600		
*MG	400		500	325**	16000-SPLIT SHAFT
*CSD, HFM	400		600	425***	PTO DRIVE**
2CBP, 2HP	1000		1000	SEE POWER TAKE-OFF SELECTION DATA INSTRUCTION SHEET I-91 AND PUMP PERFORMANCE CURVES FOR LIMITS	
CBP, AP	400		500		
PSD,RSD	400		600		
TBP	VOLUME 300	PRESSURE 500	600		
QSMG (Bronze)	500		500		
QG (Bronze)	VOLUME 300	PRESSURE 500	500	450*	16000

**WARNING:** The horsepower limits for pumping do not take into consideration the torque on the pump drive shaft during road operation. This torque is imposed by the engine and multiplied by the truck transmission gear ratios. On automatic transmissions, both the transmission and torque converter ratios multiply the torque. Check for the maximum torque on the pump drive shaft by using the following formula.

- \* See current Pump-Engine Combination list for pump model number.
- \*\* Qpak & MG power take-off driven pumps require the PTO to have a torque rating of 500 lb.ft. Contact the PTO manufacturer for their continuous duty derating and approval of application. If additional information is required, contact Hale's Engineering Department.
- \*\*\* On CSD and HFM series pumps, the pumping torque requirements might exceed the engine crankshaft limits. Contact the engine manufacturer for their approval of the pumping application.

See instruction sheet of the current pump-engine combination list (Form F-74) for additional information.

Failure to follow the procedures listed on this sheet may result in serious personal injury and/or damage to equipment.

$$\left( \frac{\text{MAXIMUM ALLOWABLE GROSS}}{\text{ENGINE TORQUE (FT - LBS)}} \right) = \frac{\text{TORQUE CONSTANT (FROM TABLE)}}{\left( \frac{\text{HIGHEST FORWARD TRUCK TRANSMISSION RATIO}}{\text{(FIRST GEAR)}} \right) \times \left( \frac{\text{TORQUE CONVERTER RATIO}}{\text{(IF APPLICABLE)}} \right)}$$

**EXAMPLES:**

A) Qtwo, Qpak, Qmax, Qflo, DSD, 8FGR or MG pump driven by a manual transmission with a 7.71 first gear ratio

$$\frac{16000}{7.71} = 2,075 \text{ POUND FEET MAXIMUM ALLOWABLE GROSS ENGINE TORQUE}$$

B) Qtwo, Qpak, Qmax, Qflo, DSD, 8FGR or MG pump driven by an automatic transmission with a 3.69 first gear ratio and 2.21 torque converter ratio.

$$\frac{16000}{3.69 \times 2.21} = 1,962 \text{ POUND FEET MAXIMUM ALLOWABLE GROSS ENGINE TORQUE}$$

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR	
	MODEL NUMBER		C7	C7	C7	C7	C7	C7
	DISPLACEMENT		441	441	441	441	441	441
	RATED HP		275	275	300	300	330	330
	GOVERNED SPEED		2400	2400	2400	2400	2400	2400
	PEAK TORQUE		800	860	800	860	860	860
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23	23	23	23
	QPAK100	1000	X	23	23	23	23	23
	QFLO75	750	L	21	21	21	21	21
	QFLO75	750	X	21	21	21	21	21
	QFLO100	1000	L	21	21	21	21	21
	QFLO100	1000	X	21	21	21	21	21
	QFLO125	1250	L	21	21	21	21	21
	QFLO125	1250	X	21	21	21	21	21
	QMID100	1000	S or L	21	21	21	21	21
	QMID100	1000	X	21	21	21	21	21
	QMID125	1250	S or L	21	21	21	21	21
	QMID125	1250	X	21	21	21	21	21
	QMAX100	1000	S, L or LK	21	21	21	21	21
	QMAX100	1000	X or XK	21	21	21	21	21
	QMAX125	1250	S, L or LK	21	21	21	21	21
	QMAX125	1250	X or XK	21	21	21	21	21
	QMAX150	1500	S, L or LK				21	19
	QMAX150	1500	X or XK				21	19
	QMAX175	1750	S, L or LK					
	QMAX175	1750	X or XK					
	QMAX200	2000	S, L or LK					
	QMAX200	2000	X or XK					
	QMAX225	2250	S, L or LK					
	QMAX225	2250	X or XK					
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	23	23	23	23	23
	DSD125	1250	X	23	23	23	23	23
	DSD150	1500	L				21	21
	DSD150	1500	X					19
	SMM/SMD	1250	X					19
	SMM/SMD	1500	X					
	MG50	500		26	26	26	26	26
	MG75	750		26	26	26	26	26
	MG100	1000		26	26	26	26	26
	TWO STAGE							
	QTWO100	1000	S, L or LK	17	19	19	19	19
	QTWO100	1000	X or XK	19	19	19	19	19
	QTWO125	1250	S, L or LK	17	19	19	19	19
	QTWO125	1250	X or XK	19	19	19	19	19
QTWO150	1500	S, L or LK					19	
QTWO150	1500	X or XK					19	
QTWO175	1750	S, L or LK						
QTWO175	1750	X or XK						
QTWO200	2000	S, L or LK						
QTWO200	2000	X or XK						

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR
	MODEL NUMBER		C9	C9	C9	C9	C11
	DISPLACEMENT		537	537	537	537	677
	RATED HP		335	350	370	400	335
	GOVERNED SPEED		2100	2100	2100	2100	2100
	PEAK TORQUE		1050	1100	1100	1100	1250
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE						
	QPAK50	500	L	23	23	23	23
	QPAK50	500	X	23	23	23	23
	QPAK75	750	L	23	23	23	23
	QPAK75	750	X	23	23	23	23
	QPAK100	1000	L	23	23	23	23
	QPAK100	1000	X	23	23	23	23
	QFLO75	750	L	23	23	23	23
	QFLO75	750	X	23	23	23	23
	QFLO100	1000	L	23	23	23	23
	QFLO100	1000	X	23	23	23	23
	QFLO125	1250	L	23	23	23	23
	QFLO125	1250	X	23	23	23	23
	QMID100	1000	S or L	21	21	21	23
	QMID100	1000	X	21	21	21	23
	QMID125	1250	S or L	21	21	21	23
	QMID125	1250	X	21	21	21	23
	QMAX100	1000	S, L or LK	21	21	21	23
	QMAX100	1000	X or XK	21	21	21	23
	QMAX125	1250	S, L or LK	21	21	21	23
	QMAX125	1250	X or XK	21	21	21	23
	QMAX150	1500	S, L or LK	21	21	21	23
	QMAX150	1500	X or XK	21	21	21	23
	QMAX175	1750	S, L or LK	21	21	21	23
	QMAX175	1750	X or XK	21	21	21	23
	QMAX200	2000	S, L or LK	21	21	21	23
	QMAX200	2000	X or XK	21	21	21	23
	QMAX225	2250	S, L or LK				
	QMAX225	2250	X or XK				
	DSD75	750	L	23	23	23	23
	DSD75	750	X	23	23	23	23
	DSD100	1000	L	23	23	23	23
	DSD100	1000	X	23	23	23	23
	DSD125	1250	L	23	23	23	23
	DSD125	1250	X	23	23	23	23
	DSD150	1500	L	23	23	23	23
	DSD150	1500	X	23	23	23	23
	SMM/SMD	1250	X	19	19	21	23
	SMM/SMD	1500	X	19	19	21	23
	MG50	500		30	30	30	30
	MG75	750		30	30	30	30
	MG100	1000		30	30	30	30
	TWO STAGE						
	QTWO100	1000	S, L or LK	19	19	19	21
	QTWO100	1000	X or XK	19	19	19	21
	QTWO125	1250	S, L or LK	19	19	19	21
	QTWO125	1250	X or XK	19	19	19	21
	QTWO150	1500	S, L or LK	19	19	19	21
	QTWO150	1500	X or XK	19	19	19	21
	QTWO175	1750	S, L or LK	19	19	19	21
	QTWO175	1750	X or XK	19	19	19	21
	QTWO200	2000	S, L or LK				21
QTWO200	2000	X or XK				21	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR
	MODEL NUMBER		C11	C11	C11	C11	C13
	DISPLACEMENT		677	677	677	677	763
	RATED HP		350	350	370	370	410
	GOVERNED SPEED		2100	2100	2100	2100	2100
	PEAK TORQUE		1350	1450	1350	1450	1550
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE						
	QPAK50	500	L	23	23	23	23
	QPAK50	500	X	23	23	23	23
	QPAK75	750	L	23	23	23	23
	QPAK75	750	X	23	23	23	23
	QPAK100	1000	L	23	23	23	23
	QPAK100	1000	X	23	23	23	23
	QFLO75	750	L	23	23	23	23
	QFLO75	750	X	23	23	23	23
	QFLO100	1000	L	23	23	23	23
	QFLO100	1000	X	23	23	23	23
	QFLO125	1250	L	23	23	23	23
	QFLO125	1250	X	23	23	23	23
	QMID100	1000	S or L	23	23	23	23
	QMID100	1000	X	23	23	23	23
	QMID125	1250	S or L	23	23	23	23
	QMID125	1250	X	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23
	QMAX150	1500	S, L or LK	23	23	23	23
	QMAX150	1500	X or XK	23	23	23	23
	QMAX175	1750	S, L or LK	23	23	23	23
	QMAX175	1750	X or XK	23	23	23	23
	QMAX200	2000	S, L or LK	23	23	23	23
	QMAX200	2000	X or XK	23	23	23	23
	QMAX225	2250	S, L or LK		23	23	23
	QMAX225	2250	X or XK		23	23	23
	DSD75	750	L	23	23	23	23
	DSD75	750	X	23	23	23	23
	DSD100	1000	L	23	23	23	23
	DSD100	1000	X	23	23	23	23
	DSD125	1250	L	23	23	23	23
	DSD125	1250	X	23	23	23	23
	DSD150	1500	L	23	23	23	23
	DSD150	1500	X	23	23	23	23
	SMM/SMD	1250	X	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23
	MG50	500		30	30	30	30
	MG75	750		30	30	30	30
	MG100	1000		30	30	30	30
	TWO STAGE						
	QTWO100	1000	S, L or LK	21	21	21	21
	QTWO100	1000	X or XK	21	21	21	21
	QTWO125	1250	S, L or LK	21	21	21	21
QTWO125	1250	X or XK	21	21	21	21	
QTWO150	1500	S, L or LK	21	21	21	21	
QTWO150	1500	X or XK	21	21	21	21	
QTWO175	1750	S, L or LK	21	21	21	21	
QTWO175	1750	X or XK	21	21	21	21	
QTWO200	2000	S, L or LK	21	21	21	21	
QTWO200	2000	X or XK	21	21	21	21	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		CATERPILLAR	CATERPILLAR	CATERPILLAR	CUMMINS/ PACCAR	CUMMINS/ PACCAR	
	MODEL NUMBER		C13	C13	C13	ISB/PX-6 350	ISC/PX-8 260	
	DISPLACEMENT		763	763	763	409	506	
	RATED HP		430	470	525	350	260	
	GOVERNED SPEED		2100	2100	2100	2600	2200	
	PEAK TORQUE		1650	1650	1650	750	800	
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	21	23
	QPAK50	500	X	23	23	23	21	23
	QPAK75	750	L	23	23	23	21	23
	QPAK75	750	X	23	23	23	21	23
	QPAK100	1000	L	23	23	23	21	23
	QPAK100	1000	X	23	23	23	21	23
	QFLO75	750	L	23	23	23	21	23
	QFLO75	750	X	23	23	23	21	23
	QFLO100	1000	L	23	23	23	21	23
	QFLO100	1000	X	23	23	23	21	23
	QFLO125	1250	L	23	23	23	21	23
	QFLO125	1250	X	23	23	23	21	23
	QMID100	1000	S or L	23	23	23	19	23
	QMID100	1000	X	23	23	23	19	23
	QMID125	1250	S or L	23	23	23	19	23
	QMID125	1250	X	23	23	23	19	23
	QMAX100	1000	S, L or LK	23	23	23	19	23
	QMAX100	1000	X or XK	23	23	23	19	23
	QMAX125	1250	S, L or LK	23	23	23	19	23
	QMAX125	1250	X or XK	23	23	23	19	23
	QMAX150	1500	S, L or LK	23	23	23		
	QMAX150	1500	X or XK	23	23	23		
	QMAX175	1750	S, L or LK	23	23	23		
	QMAX175	1750	X or XK	23	23	23		
	QMAX200	2000	S, L or LK	23	23	23		
	QMAX200	2000	X or XK	23	23	23		
	QMAX225	2250	S, L or LK	23	23	23		
	QMAX225	2250	X or XK	23	23	23		
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	23	23	23	23	23
	DSD125	1250	X	23	23	23	23	23
	DSD150	1500	L	23	23	23		
	DSD150	1500	X	23	23	23		
	SMM/SMD	1250	X	23	23	23		
	SMM/SMD	1500	X	23	23	23		
	MG50	500		30	30	30	26	30
	MG75	750		30	30	30	26	30
	MG100	1000		30	30	30	26	30
TWO STAGE								
QTWO100	1000	S, L or LK	21	21	21	17	21	
QTWO100	1000	X or XK	21	21	21		21	
QTWO125	1250	S, L or LK	21	21	21	17	21	
QTWO125	1250	X or XK	21	21	21		21	
QTWO150	1500	S, L or LK	21	21	21			
QTWO150	1500	X or XK	21	21	21			
QTWO175	1750	S, L or LK	21	21	21			
QTWO175	1750	X or XK	21	21	21			
QTWO200	2000	S, L or LK	21	21	21			
QTWO200	2000	X or XK	21	21	21			

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			CUMMINS/ PACCAR	CUMMINS/ PACCAR	CUMMINS/ PACCAR	CUMMINS	CUMMINS	
	MODEL NUMBER				ISC/PX-8 315	ISC/PX-8 330	ISC/PX-8 360	ISB 275	ISB 280
	DISPLACEMENT				506	506	506	359	409
	RATED HP				315	330	360	275	280
	GOVERNED SPEED				2200	2200	2200	2600	2600
	PEAK TORQUE				1000	1000	1050	660	660
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE								
	QPAK50	500	L	23	23	23	21	21	
	QPAK50	500	X	23	23	23	21	21	
	QPAK75	750	L	23	23	23	21	21	
	QPAK75	750	X	23	23	23	21	21	
	QPAK100	1000	L	23	23	23	21	21	
	QPAK100	1000	X	23	23	23	21	21	
	QFLO75	750	L	23	23	23	21	21	
	QFLO75	750	X	23	23	23	21	21	
	QFLO100	1000	L	23	23	23	21	21	
	QFLO100	1000	X	23	23	23	21	21	
	QFLO125	1250	L	23	23	23	21	21	
	QFLO125	1250	X	23	23	23	21	21	
	QMID100	1000	S or L	23	23	23	19	19	
	QMID100	1000	X	23	23	23	19	19	
	QMID125	1250	S or L	23	23	23	19	19	
	QMID125	1250	X	23	23	23	19	19	
	QMAX100	1000	S, L or LK	23	23	23	19	19	
	QMAX100	1000	X or XK	23	23	23	19	19	
	QMAX125	1250	S, L or LK	23	23	23	19	19	
	QMAX125	1250	X or XK	23	23	23	19	19	
	QMAX150	1500	S, L or LK	23	23	23			
	QMAX150	1500	X or XK	23	23	23			
	QMAX175	1750	S, L or LK	21	21	23			
	QMAX175	1750	X or XK	21	21	23			
	QMAX200	2000	S, L or LK						
	QMAX200	2000	X or XK						
	QMAX225	2250	S, L or LK						
	QMAX225	2250	X or XK						
	DSD75	750	L	23	23	23	23	23	
	DSD75	750	X	23	23	23	23	23	
	DSD100	1000	L	23	23	23	23	23	
	DSD100	1000	X	23	23	23	23	23	
	DSD125	1250	L	23	23	23	21	21	
	DSD125	1250	X	23	23	23	21	21	
	DSD150	1500	L	23	23	23			
	DSD150	1500	X	23	23	23			
	SMM/SMD	1250	X	21	21	21			
	SMM/SMD	1500	X						
	MG50	500		30	30	30	26	26	
	MG75	750		30	30	30	26	26	
	MG100	1000		30	30	30	26	26	
TWO STAGE									
QTWO100	1000	S, L or LK	21	21	21	17	17		
QTWO100	1000	X or XK	21	21	21				
QTWO125	1250	S, L or LK	21	21	21	17	17		
QTWO125	1250	X or XK	21	21	21				
QTWO150	1500	S, L or LK	21	21	21				
QTWO150	1500	X or XK	21	21	21				
QTWO175	1750	S, L or LK			21				
QTWO175	1750	X or XK			21				
QTWO200	2000	S, L or LK							
QTWO200	2000	X or XK							

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER			ISB 300	ISB 300	ISB 325	ISB 340	ISB 360
	DISPLACEMENT			359	409	409	409	409
	RATED HP			300	300	325	340	360
	GOVERNED SPEED			2600	2600	2600	2600	2600
	PEAK TORQUE			660	660	750	660	800
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	21	21	23	23	23
	QPAK50	500	X	21	21	23	23	23
	QPAK75	750	L	21	21	23	23	23
	QPAK75	750	X	21	21	23	23	23
	QPAK100	1000	L	21	21	23	23	23
	QPAK100	1000	X	21	21	23	23	23
	QFLO75	750	L	21	21	23	21	23
	QFLO75	750	X	21	21	23	21	23
	QFLO100	1000	L	21	21	23	21	23
	QFLO100	1000	X	21	21	23	21	23
	QFLO125	1250	L	19	19	23	21	23
	QFLO125	1250	X	19	19	23	21	23
	QMID100	1000	S or L	19	19	21	19	21
	QMID100	1000	X	19	19	21	19	21
	QMID125	1250	S or L	19	19	21	19	21
	QMID125	1250	X	19	19	21	19	21
	QMAX100	1000	S, L or LK	19	19	21	21	21
	QMAX100	1000	X or XK	19	19	21	21	21
	QMAX125	1250	S, L or LK	19	19	21	19	21
	QMAX125	1250	X or XK	19	19	21	19	21
	QMAX150	1500	S, L or LK			19	15	19
	QMAX150	1500	X or XK			19		19
	QMAX175	1750	S, L or LK			17		17
	QMAX175	1750	X or XK					
	QMAX200	2000	S, L or LK					15
	QMAX200	2000	X or XK					
	QMAX225	2250	S, L or LK					
	QMAX225	2250	X or XK					
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	21	21	21	21	23
	DSD125	1250	X	21	21	21	21	23
	DSD150	1500	L			19	17	21
	DSD150	1500	X			19		21
	SMM/SMD	1250	X					
	SMM/SMD	1500	X					
	MG50	500		26	26	26	26	26
	MG75	750		26	26	26	26	26
	MG100	1000		26	26	26	26	26
	TWO STAGE							
	QTWO100	1000	S, L or LK	17	17	19	19	21
	QTWO100	1000	X or XK			19	19	21
	QTWO125	1250	S, L or LK	17	17	19	17	19
	QTWO125	1250	X or XK			19		19
	QTWO150	1500	S, L or LK			17		17
	QTWO150	1500	X or XK					
	QTWO175	1750	S, L or LK					15L or 16LK
	QTWO175	1750	X or XK					
	QTWO200	2000	S, L or LK					
QTWO200	2000	X or XK						

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER			ISC 260	ISC 285	ISC 300	ISC 315	ISC 330
	DISPLACEMENT			506	506	506	506	506
	RATED HP			260	285	300	315	330
	GOVERNED SPEED			2200	2200	2200	2200	2200
	PEAK TORQUE			800	800	860	950	950
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23	23	23	23
	QPAK100	1000	X	23	23	23	23	23
	QFLO75	750	L	23	23	23	23	23
	QFLO75	750	X	23	23	23	23	23
	QFLO100	1000	L	23	23	23	23	23
	QFLO100	1000	X	23	23	23	23	23
	QFLO125	1250	L	23	23	23	23	23
	QFLO125	1250	X	23	23	23	23	23
	QMID100	1000	S or L	23	23	23	23	23
	QMID100	1000	X	23	23	23	23	23
	QMID125	1250	S or L	23	23	23	23	23
	QMID125	1250	X	23	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23	23
	QMAX150	1500	S, L or LK			21	23	23
	QMAX150	1500	X or XK			21	23	23
	QMAX175	1750	S, L or LK				23	23
	QMAX175	1750	X or XK				21	21
	QMAX200	2000	S, L or LK					
	QMAX200	2000	X or XK					
	QMAX225	2250	S, L or LK					
	QMAX225	2250	X or XK					
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	23	23	23	23	23
	DSD125	1250	X	23	23	23	23	23
	DSD150	1500	L			23	23	23
	DSD150	1500	X			23	23	23
	SMM/SMD	1250	X			21	21	19
	SMM/SMD	1500	X					19
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	19	19	21	23	23
	QTWO100	1000	X or XK	19	19	23	23	23
	QTWO125	1250	S, L or LK	19	19	21	23	23
	QTWO125	1250	X or XK	19	19	21	23	23
	QTWO150	1500	S, L or LK			19	23	23
	QTWO150	1500	X or XK			21	23	23
	QTWO175	1750	S, L or LK				21	21
	QTWO175	1750	X or XK				21	21
	QTWO200	2000	S, L or LK					
QTWO200	2000	X or XK						

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER			ISC 350	ISC 360	ISC 380	ISL 330	ISL 345
	DISPLACEMENT			506	506	506	537	543
	RATED HP			350	360	380	330	345
	GOVERNED SPEED			2200	2200	2200	2200	2200
	PEAK TORQUE			1000	1050	1050	1150	1150
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23	23	23	23
	QPAK100	1000	X	23	23	23	23	23
	QFLO75	750	L	23	23	23	23	23
	QFLO75	750	X	23	23	23	23	23
	QFLO100	1000	L	23	23	23	23	23
	QFLO100	1000	X	23	23	23	23	23
	QFLO125	1250	L	23	23	23	23	23
	QFLO125	1250	X	23	23	23	23	23
	QMID100	1000	S or L	23	23	23	23	23
	QMID100	1000	X	23	23	23	23	23
	QMID125	1250	S or L	23	23	23	23	23
	QMID125	1250	X	23	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23	23
	QMAX150	1500	S, L or LK	23	23	23	23	23
	QMAX150	1500	X or XK	23	23	23	23	23
	QMAX175	1750	S, L or LK	23	23	23	23	23
	QMAX175	1750	X or XK	23	23	23	23	23
	QMAX200	2000	S, L or LK			21	23	23
	QMAX200	2000	X or XK			21	23	23
	QMAX225	2250	S, L or LK					
	QMAX225	2250	X or XK					
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	23	23	23	23	23
	DSD125	1250	X	23	23	23	23	23
	DSD150	1500	L	23	23	23	23	23
	DSD150	1500	X	23	23	23	23	23
	SMM/SMD	1250	X	19	19	19	23	23
	SMM/SMD	1500	X	19	19	19	21	21
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	23	23	23	23	23
	QTWO100	1000	X or XK	23	23	23	23	23
	QTWO125	1250	S, L or LK	23	23	23	23	23
	QTWO125	1250	X or XK	23	23	23	23	23
	QTWO150	1500	S, L or LK	23	23	23	23	23
	QTWO150	1500	X or XK	23	23	23	23	23
	QTWO175	1750	S, L or LK	21	21	23	23	23
	QTWO175	1750	X or XK	21	21	23	23	23
	QTWO200	2000	S, L or LK			21	23	23
QTWO200	2000	X or XK			21	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER			ISL 350	ISL 350	ISL 370	ISL 380	ISL 400
	DISPLACEMENT			537	537	537	543	537
	RATED HP			350	350	370	380	400
	GOVERNED SPEED			2200	2200	2200	2200	2200
	PEAK TORQUE			1050	1250	1200	1300	1200
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23	23	23	23
	QPAK100	1000	X	23	23	23	23	23
	QFLO75	750	L	23	23	23	23	23
	QFLO75	750	X	23	23	23	23	23
	QFLO100	1000	L	23	23	23	23	23
	QFLO100	1000	X	23	23	23	23	23
	QFLO125	1250	L	23	23	23	23	23
	QFLO125	1250	X	23	23	23	23	23
	QMID100	1000	S or L	23	23	23	23	23
	QMID100	1000	X	23	23	23	23	23
	QMID125	1250	S or L	23	23	23	23	23
	QMID125	1250	X	23	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23	23
	QMAX150	1500	S, L or LK	23	23	23	23	23
	QMAX150	1500	X or XK	23	23	23	23	23
	QMAX175	1750	S, L or LK	23	23	23	23	23
	QMAX175	1750	X or XK	23	23	23	23	23
	QMAX200	2000	S, L or LK	21	21	23	23	23
	QMAX200	2000	X or XK	21	21	23	23	23
	QMAX225	2250	S, L or LK				21	21
	QMAX225	2250	X or XK				21	21
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	23	23	23	23	23
	DSD125	1250	X	23	23	23	23	23
	DSD150	1500	L	23	23	23	23	23
	DSD150	1500	X	23	23	23	23	23
	SMM/SMD	1250	X	23	23	23	23	23
	SMM/SMD	1500	X	21	23	23	23	23
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	23	21	21	23	23
	QTWO100	1000	X or XK	23	21	21	23	23
	QTWO125	1250	S, L or LK	23	23	21	23	23
	QTWO125	1250	X or XK	23	23	21	23	23
	QTWO150	1500	S, L or LK	23	23	21	23	23
	QTWO150	1500	X or XK	23	23	21	23	23
	QTWO175	1750	S, L or LK	23	23	21	23	23
	QTWO175	1750	X or XK	23	23	21	23	23
	QTWO200	2000	S, L or LK	21	23	21	23	23
QTWO200	2000	X or XK	19	23	21	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	
	MODEL NUMBER		ISL 400EV	ISL 425	ISL 450EV	ISM 340EV	ISM 365	
	DISPLACEMENT		543	543	543	661	661	
	RATED HP		400	425	450	340	365	
	GOVERNED SPEED		2200	2200	2200	2100	2100	
	PEAK TORQUE		1250	1200	1250	1350	1350	
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23	23	23	23
	QPAK100	1000	X	23	23	23	23	23
	QFLO75	750	L	23	23	23	23	23
	QFLO75	750	X	23	23	23	23	23
	QFLO100	1000	L	23	23	23	23	23
	QFLO100	1000	X	23	23	23	23	23
	QFLO125	1250	L	23	23	23	23	23
	QFLO125	1250	X	23	23	23	23	23
	QMID100	1000	S or L	23	23	23	23	23
	QMID100	1000	X	23	23	23	23	23
	QMID125	1250	S or L	23	23	23	23	23
	QMID125	1250	X	23	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23	23
	QMAX150	1500	S, L or LK	23	23	23	23	23
	QMAX150	1500	X or XK	23	23	23	23	23
	QMAX175	1750	S, L or LK	23	23	23	23	23
	QMAX175	1750	X or XK	23	23	23	23	23
	QMAX200	2000	S, L or LK	23	23	23	23	23
	QMAX200	2000	X or XK	23	23	23	23	23
	QMAX225	2250	S, L or LK	21	21	23		
	QMAX225	2250	X or XK	21	21	23		
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	23	23	23	23	23
	DSD125	1250	X	23	23	23	23	23
	DSD150	1500	L	23	23	23	23	23
	DSD150	1500	X	23	23	23	23	23
	SMM/SMD	1250	X	23	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23	23
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	23	23	23	23	23
	QTWO100	1000	X or XK	23	23	23	23	23
	QTWO125	1250	S, L or LK	23	23	23	23	23
	QTWO125	1250	X or XK	23	23	23	23	23
	QTWO150	1500	S, L or LK	23	23	23	23	23
	QTWO150	1500	X or XK	23	23	23	23	23
	QTWO175	1750	S, L or LK	23	23	23	23	23
	QTWO175	1750	X or XK	23	23	23	23	23
	QTWO200	2000	S, L or LK	23	23	23	23	23
QTWO200	2000	X or XK	23	23	23	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	
	MODEL NUMBER		ISM 380	ISM 385	ISM 385	ISM 400	ISM 400	ISM 400
	DISPLACEMENT		661	661	661	661	661	661
	RATED HP		380	385	385	400	400	400
	GOVERNED SPEED		2100	2100	2100	2100	2100	2100
	PEAK TORQUE		1200	1350	1450	1450	1450	1550
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23	23	23	23
	QPAK100	1000	X	23	23	23	23	23
	QFLO75	750	L	23	23	23	23	23
	QFLO75	750	X	23	23	23	23	23
	QFLO100	1000	L	23	23	23	23	23
	QFLO100	1000	X	23	23	23	23	23
	QFLO125	1250	L	23	23	23	23	23
	QFLO125	1250	X	23	23	23	23	23
	QMID100	1000	S or L	23	23	23	23	23
	QMID100	1000	X	23	23	23	23	23
	QMID125	1250	S or L	23	23	23	23	23
	QMID125	1250	X	23	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23	23
	QMAX150	1500	S, L or LK	23	23	23	23	23
	QMAX150	1500	X or XK	23	23	23	23	23
	QMAX175	1750	S, L or LK	23	23	23	23	23
	QMAX175	1750	X or XK	23	23	23	23	23
	QMAX200	2000	S, L or LK	23	23	23	23	23
	QMAX200	2000	X or XK	23	23	23	23	23
	QMAX225	2250	S, L or LK	21	23	23	23	23
	QMAX225	2250	X or XK	21	23	23	23	23
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	23	23	23	23	23
	DSD125	1250	X	23	23	23	23	23
	DSD150	1500	L	23	23	23	23	23
	DSD150	1500	X	23	23	23	23	23
	SMM/SMD	1250	X	23	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23	23
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	23	23	23	23	23
	QTWO100	1000	X or XK	23	23	23	23	23
	QTWO125	1250	S, L or LK	23	23	23	23	23
QTWO125	1250	X or XK	23	23	23	23	23	
QTWO150	1500	S, L or LK	23	23	23	23	23	
QTWO150	1500	X or XK	23	23	23	23	23	
QTWO175	1750	S, L or LK	23	23	23	23	23	
QTWO175	1750	X or XK	23	23	23	23	23	
QTWO200	2000	S, L or LK	23	23	23	23	23	
QTWO200	2000	X or XK	23	23	23	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER			ISM 430	ISM 435	ISM 450	ISM 450	ISM 475
	DISPLACEMENT			661	661	661	661	661
	RATED HP			430	435	450	450	475
	GOVERNED SPEED			2100	2100	2100	2100	2100
	PEAK TORQUE			1450	1550	1450	1550	1550
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23	23	23	23
	QPAK100	1000	X	23	23	23	23	23
	QFLO75	750	L	23	23	23	23	23
	QFLO75	750	X	23	23	23	23	23
	QFLO100	1000	L	23	23	23	23	23
	QFLO100	1000	X	23	23	23	23	23
	QFLO125	1250	L	23	23	23	23	23
	QFLO125	1250	X	23	23	23	23	23
	QMID100	1000	S or L	23	23	23	23	23
	QMID100	1000	X	23	23	23	23	23
	QMID125	1250	S or L	23	23	23	23	23
	QMID125	1250	X	23	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23	23
	QMAX150	1500	S, L or LK	23	23	23	23	23
	QMAX150	1500	X or XK	23	23	23	23	23
	QMAX175	1750	S, L or LK	23	23	23	23	23
	QMAX175	1750	X or XK	23	23	23	23	23
	QMAX200	2000	S, L or LK	23	23	23	23	23
	QMAX200	2000	X or XK	23	23	23	23	23
	QMAX225	2250	S, L or LK	23	23	23	23	23
	QMAX225	2250	X or XK	23	23	23	23	23
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	23	23	23	23	23
	DSD125	1250	X	23	23	23	23	23
	DSD150	1500	L	23	23	23	23	23
	DSD150	1500	X	23	23	23	23	23
	SMM/SMD	1250	X	23	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23	23
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	23	23	23	23	23
	QTWO100	1000	X or XK	23	23	23	23	23
	QTWO125	1250	S, L or LK	23	23	23	23	23
	QTWO125	1250	X or XK	23	23	23	23	23
	QTWO150	1500	S, L or LK	23	23	23	23	23
	QTWO150	1500	X or XK	23	23	23	23	23
	QTWO175	1750	S, L or LK	23	23	23	23	23
	QTWO175	1750	X or XK	23	23	23	23	23
	QTWO200	2000	S, L or LK	23	23	23	23	23
QTWO200	2000	X or XK	23	23	23	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER			ISM 500	ISM 500	ISX 450	ISX 525	ISX 650
	DISPLACEMENT			661	661	912	912	912
	RATED HP			500	500	450	525	650
	GOVERNED SPEED			2100	2100	2100	2000	2100
	PEAK TORQUE			1450	1550	1450	1650	1950
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23		
	QPAK50	500	X	23	23	23	25	
	QPAK75	750	L	23	23	23		
	QPAK75	750	X	23	23	23	25	
	QPAK100	1000	L	23	23	23		
	QPAK100	1000	X	23	23	23	25	
	QFLO75	750	L	23	23	23	23	
	QFLO75	750	X	23	23	23	23	
	QFLO100	1000	L	23	23	23	23	
	QFLO100	1000	X	23	23	23	23	
	QFLO125	1250	L	23	23	23	23	
	QFLO125	1250	X	23	23	23	23	23
	QMID100	1000	S or L	23	23	23	23	23
	QMID100	1000	X	23	23	23	23	23
	QMID125	1250	S or L	23	23	23	23	23
	QMID125	1250	X	23	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23	23
	QMAX150	1500	S, L or LK	23	23	23	23	23
	QMAX150	1500	X or XK	23	23	23	23	23
	QMAX175	1750	S, L or LK	23	23	23	23	23
	QMAX175	1750	X or XK	23	23	23	23	23
	QMAX200	2000	S, L or LK	23	23	23	23	23
	QMAX200	2000	X or XK	23	23	23	23	23
	QMAX225	2250	S, L or LK	23	23	23	23	23
	QMAX225	2250	X or XK	23	23	23	23	23
	DSD75	750	L	23	23	23		23
	DSD75	750	X	23	23	23	28	23
	DSD100	1000	L	23	23	23		23
	DSD100	1000	X	23	23	23	28	23
	DSD125	1250	L	23	23	23		23
	DSD125	1250	X	23	23	23	28	23
	DSD150	1500	L	23	23	23		23
	DSD150	1500	X	23	23	23	28	23
	SMM/SMD	1250	X	23	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23	23
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	23	23	23	23	23
	QTWO100	1000	X or XK	23	23	23	23	23
	QTWO125	1250	S, L or LK	23	23	23	23	23
	QTWO125	1250	X or XK	23	23	23	23	23
	QTWO150	1500	S, L or LK	23	23	23	23	23
	QTWO150	1500	X or XK	23	23	23	23	23
	QTWO175	1750	S, L or LK	23	23	23	23	23
	QTWO175	1750	X or XK	23	23	23	23	23
	QTWO200	2000	S, L or LK	23	23	23	23	23
QTWO200	2000	X or XK	23	23	23	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			MACK	MACK	MACK	MACK	MACK	
	MODEL NUMBER				AC 310/330	AC 330/350	AC 350	AC 355/380	AC 380/410
	DISPLACEMENT				728	728	728	728	728
	RATED HP				330	350	350	380	410
	GOVERNED SPEED				1800	1800	1800	1800	1800
	PEAK TORQUE				1360	1460	1360	1560	1660
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE								
	QPAK50	500	L						
	QPAK50	500	X	28	28	28	28	28	
	QPAK75	750	L						
	QPAK75	750	X	28	28	28	28	28	
	QPAK100	1000	L						
	QPAK100	1000	X	28	28	28	28	28	
	QFLO75	750	L						
	QFLO75	750	X	28	28	28	28	28	
	QFLO100	1000	L						
	QFLO100	1000	X	28	28	28	28	28	
	QFLO125	1250	L						
	QFLO125	1250	X	28	28	28	28	28	
	QMID100	1000	S or L						
	QMID100	1000	X	28	28	25	28	28	
	QMID125	1250	S or L						
	QMID125	1250	X	28	28	25	28	28	
	QMAX100	1000	S, L or LK						
	QMAX100	1000	X or XK	25	25	25	25	25	
	QMAX125	1250	S, L or LK						
	QMAX125	1250	X or XK	25	25	25	25	25	
	QMAX150	1500	S, L or LK						
	QMAX150	1500	X or XK	25	25	25	25	25	
	QMAX175	1750	S, L or LK						
	QMAX175	1750	X or XK	25	25	25	25	25	
	QMAX200	2000	S, L or LK						
	QMAX200	2000	X or XK	25	25	25	25	25	
	QMAX225	2250	S, L or LK						
	QMAX225	2250	X or XK				25	25	
	DSD75	750	L						
	DSD75	750	X	28	28	28	28	28	
	DSD100	1000	L						
	DSD100	1000	X	28	28	28	28	28	
	DSD125	1250	L						
	DSD125	1250	X	28	28	28	28	28	
	DSD150	1500	L						
	DSD150	1500	X	28	28	28	28	28	
	SMM/SMD	1250	X	23	23	23	23	23	
	SMM/SMD	1500	X	23	23	23	23	23	
	MG50	500							
	MG75	750							
	MG100	1000							
TWO STAGE									
QTWO100	1000	S, L or LK	23	23	23	23	23		
QTWO100	1000	X or XK	23	23	23	23	23		
QTWO125	1250	S, L or LK	23	23	23	23	23		
QTWO125	1250	X or XK	23	23	23	23	23		
QTWO150	1500	S, L or LK	23	23	23	23	23		
QTWO150	1500	X or XK	23	23	23	23	23		
QTWO175	1750	S, L or LK	23	23	23	23	23		
QTWO175	1750	X or XK	23	23	23	23	23		
QTWO200	2000	S, L or LK		23	23	23	23		
QTWO200	2000	X or XK		23	23	23	23		

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			MACK	MACK	MACK	MACK	MACK
	MODEL NUMBER			AC 427	AC 460P	AI 300A	AI 350	AI 400
	DISPLACEMENT			728	728	728	728	728
	RATED HP			427	487	325	350	400
	GOVERNED SPEED			1800	1850	1950	1950	1950
	PEAK TORQUE			1560	1660	1200	1260	1360
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L					
	QPAK50	500	X	28	28	25	25	25
	QPAK75	750	L					
	QPAK75	750	X	28	28	25	25	25
	QPAK100	1000	L					
	QPAK100	1000	X	28	28	25	23	23
	QFLO75	750	L				23	23
	QFLO75	750	X	28	28	25	23	23
	QFLO100	1000	L				23	23
	QFLO100	1000	X	28	28	25	23	23
	QFLO125	1250	L				23	23
	QFLO125	1250	X	28	28	25	23	23
	QMID100	1000	S or L			23	23	23
	QMID100	1000	X	25	25	23	23	23
	QMID125	1250	S or L			23	23	23
	QMID125	1250	X	25	25	23	23	23
	QMAX100	1000	S, L or LK			23	23	23
	QMAX100	1000	X or XK	25	25	23	23	23
	QMAX125	1250	S, L or LK			23	23	23
	QMAX125	1250	X or XK	25	25	23	23	23
	QMAX150	1500	S, L or LK			23	23	23
	QMAX150	1500	X or XK	25	25	23	23	23
	QMAX175	1750	S, L or LK			23	23	23
	QMAX175	1750	X or XK	25	25	23	23	23
	QMAX200	2000	S, L or LK			23	23	23
	QMAX200	2000	X or XK	25	25	23	23	23
	QMAX225	2250	S, L or LK					23
	QMAX225	2250	X or XK	25	25			23
	DSD75	750	L					
	DSD75	750	X	28	28	25	25	25
	DSD100	1000	L					
	DSD100	1000	X	28	28	25	25	25
	DSD125	1250	L					
	DSD125	1250	X	28	28	25	25	25
	DSD150	1500	L					
	DSD150	1500	X	28	28	25	25	25
	SMM/SMD	1250	X	23	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23	23
	MG50	500				30	30	30
	MG75	750				30	30	30
	MG100	1000				30	30	30
TWO STAGE								
QTWO100	1000	S, L or LK	23	23	21	21	21	
QTWO100	1000	X or XK	23	23	21	21	21	
QTWO125	1250	S, L or LK	23	23	21	23	23	
QTWO125	1250	X or XK	23	23	21	21	21	
QTWO150	1500	S, L or LK	23	23	21	23	23	
QTWO150	1500	X or XK	23	23	21	21	21	
QTWO175	1750	S, L or LK	23	23	21	23	23	
QTWO175	1750	X or XK	23	23	21	21	21	
QTWO200	2000	S, L or LK	23	23		23	23	
QTWO200	2000	X or XK	23	23				

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			MACK	MACK	MACK	MACK	MACK	
	MODEL NUMBER				AI 427	AI 460	AMI 300	AMI 335	AMI 370
	DISPLACEMENT				728	728	728	728	728
	RATED HP				427	460	325	365	405
	GOVERNED SPEED				1950	1950	2100	2100	2100
	PEAK TORQUE				1460	1560	1200	1340	1480
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE								
	QPAK50	500	L			23	23	23	
	QPAK50	500	X	25	25	23	23	23	
	QPAK75	750	L			23	23	23	
	QPAK75	750	X	25	25	23	23	23	
	QPAK100	1000	L			23	23	23	
	QPAK100	1000	X	23	23	23	23	23	
	QFLO75	750	L	23	23	23	23	23	
	QFLO75	750	X	23	23	23	23	23	
	QFLO100	1000	L	23	23	23	23	23	
	QFLO100	1000	X	23	23	23	23	23	
	QFLO125	1250	L	23	23	23	23	23	
	QFLO125	1250	X	23	23	23	23	23	
	QMID100	1000	S or L	23	23	23	23	23	
	QMID100	1000	X	23	23	23	23	23	
	QMID125	1250	S or L	23	23	23	23	23	
	QMID125	1250	X	23	23	23	23	23	
	QMAX100	1000	S, L or LK	23	23	23	23	23	
	QMAX100	1000	X or XK	23	23	23	23	23	
	QMAX125	1250	S, L or LK	23	23	23	23	23	
	QMAX125	1250	X or XK	23	23	23	23	23	
	QMAX150	1500	S, L or LK	23	23	23	23	23	
	QMAX150	1500	X or XK	23	23	23	23	23	
	QMAX175	1750	S, L or LK	23	23	23	23	23	
	QMAX175	1750	X or XK	23	23	23	23	23	
	QMAX200	2000	S, L or LK	23	23	23	23	23	
	QMAX200	2000	X or XK	23	23	23	23	23	
	QMAX225	2250	S, L or LK	23	23			23	
	QMAX225	2250	X or XK	23	23			23	
	DSD75	750	L			23	23	23	
	DSD75	750	X	25	25	25	25	25	
	DSD100	1000	L			23	23	23	
	DSD100	1000	X	25	25	25	25	25	
	DSD125	1250	L			23	23	23	
	DSD125	1250	X	25	25	25	25	25	
	DSD150	1500	L			23	23	23	
	DSD150	1500	X	25	25	25	25	25	
	SMM/SMD	1250	X	23	23	23	23	23	
	SMM/SMD	1500	X	23	23	23	23	23	
	MG50	500		30	30	30	30	30	
	MG75	750		30	30	30	30	30	
	MG100	1000		30	30	30	30	30	
	TWO STAGE								
	QTWO100	1000	S, L or LK	21	21	21	21	21	
	QTWO100	1000	X or XK	21	21	21	21	21	
	QTWO125	1250	S, L or LK	23	23	23	23	23	
	QTWO125	1250	X or XK	21	21	21	21	21	
	QTWO150	1500	S, L or LK	23	23	23	23	23	
QTWO150	1500	X or XK	21	21	21	21	21		
QTWO175	1750	S, L or LK	23	23	23	23	23		
QTWO175	1750	X or XK	21	21	21	21	21		
QTWO200	2000	S, L or LK	23	23		23	23		
QTWO200	2000	X or XK				21	21		

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			MACK	MACK	MACK	MACK	MACK
	MODEL NUMBER			MP7 325E	MP7 325M	MP7 345C	MP7 355E	MP7 365C
	DISPLACEMENT			659	659	659	659	659
	RATED HP			325	325	345	355	365
	GOVERNED SPEED			1800	2100	1950	1800	1950
	PEAK TORQUE			1260	1200	1360	1360	1460
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L		23			
	QPAK50	500	X	28	23	28	28	28
	QPAK75	750	L		23			
	QPAK75	750	X	28	23	28	28	28
	QPAK100	1000	L		23			
	QPAK100	1000	X	28	23	28	28	28
	QFLO75	750	L		23	23		23
	QFLO75	750	X	28	23	28	28	28
	QFLO100	1000	L		23	23		23
	QFLO100	1000	X	28	23	28	28	28
	QFLO125	1250	L		23	23		23
	QFLO125	1250	X	28	23	28	28	28
	QMID100	1000	S or L		23	23		23
	QMID100	1000	X	25	23	25	25	25
	QMID125	1250	S or L		23	23		23
	QMID125	1250	X	25	23	25	25	25
	QMAX100	1000	S, L or LK		23	23		23
	QMAX100	1000	X or XK	25	23	23	25	23
	QMAX125	1250	S, L or LK		23	23		23
	QMAX125	1250	X or XK	25	23	23	25	23
	QMAX150	1500	S, L or LK		23	23		23
	QMAX150	1500	X or XK	25	23	23	25	23
	QMAX175	1750	S, L or LK		23	23		23
	QMAX175	1750	X or XK	25	23	23	25	23
	QMAX200	2000	S, L or LK			23		23
	QMAX200	2000	X or XK			23	25	23
	QMAX225	2250	S, L or LK					
	QMAX225	2250	X or XK					
	DSD75	750	L		23			
	DSD75	750	X	28	28	28	28	28
	DSD100	1000	L		23			
	DSD100	1000	X	28	28	28	28	28
	DSD125	1250	L		23			
	DSD125	1250	X	28	28	28	28	28
	DSD150	1500	L		23			
	DSD150	1500	X	28	28	28	28	28
	SMM/SMD	1250	X	23	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23	23
	MG50	500			30	30		30
	MG75	750			30	30		30
	MG100	1000			30	30		30
	TWO STAGE							
	QTWO100	1000	S, L or LK	23	23	23	23	23
	QTWO100	1000	X or XK	23	23	23	23	23
	QTWO125	1250	S, L or LK	23	23	23	23	23
	QTWO125	1250	X or XK	23	23	23	23	23
	QTWO150	1500	S, L or LK	23	23	23	23	23
	QTWO150	1500	X or XK	23	23	23	23	23
	QTWO175	1750	S, L or LK	23	23	23	23	23
	QTWO175	1750	X or XK	23	23	23	23	23
	QTWO200	2000	S, L or LK			23	23	23
QTWO200	2000	X or XK			23	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			MACK	MACK	MACK	MACK	MACK
	MODEL NUMBER			MP7 365M	MP7 395C	MP7 405E	MP7 405M	MP8 415C
	DISPLACEMENT			659	659	659	659	780
	RATED HP			365	395	405	405	415
	GOVERNED SPEED			2100	1950	1800	2100	1950
	PEAK TORQUE			1340	1560	1460	1480	1660
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23			23	
	QPAK50	500	X	28	28	28	28	28
	QPAK75	750	L	23			23	
	QPAK75	750	X	28	28	28	28	28
	QPAK100	1000	L	23			23	
	QPAK100	1000	X	28	28	28	28	28
	QFLO75	750	L	23	23		23	23
	QFLO75	750	X	28	28	28	28	28
	QFLO100	1000	L	23	23		23	23
	QFLO100	1000	X	28	28	28	28	28
	QFLO125	1250	L	23	23		23	23
	QFLO125	1250	X	28	28	28	28	28
	QMID100	1000	S or L	23	23		23	23
	QMID100	1000	X	25	25	25	25	25
	QMID125	1250	S or L	23	23		23	23
	QMID125	1250	X	25	25	25	25	25
	QMAX100	1000	S, L or LK	23	23		23	23
	QMAX100	1000	X or XK	23	23	25	23	23
	QMAX125	1250	S, L or LK	23	23		23	23
	QMAX125	1250	X or XK	23	23	25	23	23
	QMAX150	1500	S, L or LK	23	23		23	23
	QMAX150	1500	X or XK	23	23	25	23	23
	QMAX175	1750	S, L or LK	23	23		23	23
	QMAX175	1750	X or XK	23	23	25	23	23
	QMAX200	2000	S, L or LK	23	23		23	23
	QMAX200	2000	X or XK	23	23	25	23	23
	QMAX225	2250	S, L or LK		23		23	23
	QMAX225	2250	X or XK		23	25	23	23
	DSD75	750	L	23			23	
	DSD75	750	X	28	28	28	28	28
	DSD100	1000	L	23			23	
	DSD100	1000	X	28	28	28	28	28
	DSD125	1250	L	23			23	
	DSD125	1250	X	28	28	28	28	28
	DSD150	1500	L	23			23	
	DSD150	1500	X	28	28	28	28	28
	SMM/SMD	1250	X	23	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23	23
	MG50	500		30	30		30	30
	MG75	750		30	30		30	30
	MG100	1000		30	30		30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	23	23	23	23	23
	QTWO100	1000	X or XK	23	23	23	23	23
	QTWO125	1250	S, L or LK	23	23	23	23	23
	QTWO125	1250	X or XK	23	23	23	23	23
	QTWO150	1500	S, L or LK	23	23	23	23	23
	QTWO150	1500	X or XK	23	23	23	23	23
	QTWO175	1750	S, L or LK	23	23	23	23	23
	QTWO175	1750	X or XK	23	23	23	23	23
	QTWO200	2000	S, L or LK	23	23	23	23	23
QTWO200	2000	X or XK	23	23	23	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			MACK	MACK	MACK	MACK	MACK	
	MODEL NUMBER				MP8 425E	MP8 425M	MP8 445C	MP8 455E	MP8 455M
	DISPLACEMENT				780	780	780	780	780
	RATED HP				425	425	445	455	455
	GOVERNED SPEED				1800	2100	1950	1800	2100
	PEAK TORQUE				1560	1540	1660	1660	1650
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE								
	QPAK50	500	L		23			23	
	QPAK50	500	X	28	28	28	28	28	
	QPAK75	750	L		23			23	
	QPAK75	750	X	28	28	28	28	28	
	QPAK100	1000	L		23			23	
	QPAK100	1000	X	28	28	28	28	28	
	QFLO75	750	L		23	23		23	
	QFLO75	750	X	28	28	28	28	28	
	QFLO100	1000	L		23	23		23	
	QFLO100	1000	X	28	28	28	28	28	
	QFLO125	1250	L		23	23		23	
	QFLO125	1250	X	28	28	28	28	28	
	QMID100	1000	S or L		23	23		23	
	QMID100	1000	X	25	25	25	25	25	
	QMID125	1250	S or L		23	23		23	
	QMID125	1250	X	25	25	25	25	25	
	QMAX100	1000	S, L or LK		23	23		23	
	QMAX100	1000	X or XK	25	23	23	25	23	
	QMAX125	1250	S, L or LK		23	23		23	
	QMAX125	1250	X or XK	25	23	23	25	23	
	QMAX150	1500	S, L or LK		23	23		23	
	QMAX150	1500	X or XK	25	23	23	25	23	
	QMAX175	1750	S, L or LK		23	23		23	
	QMAX175	1750	X or XK	25	23	23	25	23	
	QMAX200	2000	S, L or LK		23	23		23	
	QMAX200	2000	X or XK	25	23	23	25	23	
	QMAX225	2250	S, L or LK		23	23		23	
	QMAX225	2250	X or XK	25	23	23	25	23	
	DSD75	750	L		23			23	
	DSD75	750	X	28	28	28	28	28	
	DSD100	1000	L		23			23	
	DSD100	1000	X	28	28	28	28	28	
	DSD125	1250	L		23			23	
	DSD125	1250	X	28	28	28	28	28	
	DSD150	1500	L		23			23	
	DSD150	1500	X	28	28	28	28	28	
	SMM/SMD	1250	X	23	23	23	23	23	
	SMM/SMD	1500	X	23	23	23	23	23	
	MG50	500			30	30		30	
	MG75	750			30	30		30	
	MG100	1000			30	30		30	
	TWO STAGE								
	QTWO100	1000	S, L or LK	23	23	23	23	23	
	QTWO100	1000	X or XK	23	23	23	23	23	
	QTWO125	1250	S, L or LK	23	23	23	23	23	
	QTWO125	1250	X or XK	23	23	23	23	23	
	QTWO150	1500	S, L or LK	23	23	23	23	23	
	QTWO150	1500	X or XK	23	23	23	23	23	
	QTWO175	1750	S, L or LK	23	23	23	23	23	
	QTWO175	1750	X or XK	23	23	23	23	23	
	QTWO200	2000	S, L or LK	23	23	23	23	23	
QTWO200	2000	X or XK	23	23	23	23	23		

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			MACK	MACK	MACK	MERCEDES	MERCEDES
	MODEL NUMBER			MP8 485C	MP8 485E	MP8 485M	MBE 4000	MBE 4000
	DISPLACEMENT			780	780	780	781	781
	RATED HP			485	485	485	350	370
	GOVERNED SPEED			1950	1800	2100	2000	2000
	PEAK TORQUE			1660	1660	1700	1350	1450
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L			23		
	QPAK50	500	X	28	28	28	25	25
	QPAK75	750	L			23		
	QPAK75	750	X	28	28	28	25	25
	QPAK100	1000	L			23		
	QPAK100	1000	X	28	28	28	25	25
	QFLO75	750	L	23		23		
	QFLO75	750	X	28	28	28	25	25
	QFLO100	1000	L	23		23		
	QFLO100	1000	X	28	28	28	25	25
	QFLO125	1250	L	23		23		
	QFLO125	1250	X	28	28	28	25	25
	QMID100	1000	S or L	23		23	23	23
	QMID100	1000	X	25	25	25	23	23
	QMID125	1250	S or L	23		23	23	23
	QMID125	1250	X	25	25	25	23	23
	QMAX100	1000	S, L or LK	23		23	23	23
	QMAX100	1000	X or XK	23	25	23	23	23
	QMAX125	1250	S, L or LK	23		23	23	23
	QMAX125	1250	X or XK	23	25	23	23	23
	QMAX150	1500	S, L or LK	23		23	23	23
	QMAX150	1500	X or XK	23	25	23	23	23
	QMAX175	1750	S, L or LK	23		23	23	23
	QMAX175	1750	X or XK	23	25	23	23	23
	QMAX200	2000	S, L or LK	23		23	23	23
	QMAX200	2000	X or XK	23	25	23	23	23
	QMAX225	2250	S, L or LK	23		23		23
	QMAX225	2250	X or XK	23	25	23		
	DSD75	750	L			23		
	DSD75	750	X	28	28	28	28	28
	DSD100	1000	L			23		
	DSD100	1000	X	28	28	28	28	28
	DSD125	1250	L			23		
	DSD125	1250	X	28	28	28	28	28
	DSD150	1500	L			23		
	DSD150	1500	X	28	28	28	28	28
	SMM/SMD	1250	X	23	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23	23
	MG50	500		30		30	30	30
	MG75	750		30		30	30	30
	MG100	1000		30		30	30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	23	23	23	23	23
	QTWO100	1000	X or XK	23	23	23	23	23
	QTWO125	1250	S, L or LK	23	23	23	23	23
	QTWO125	1250	X or XK	23	23	23	23	23
	QTWO150	1500	S, L or LK	23	23	23	23	23
	QTWO150	1500	X or XK	23	23	23	23	23
	QTWO175	1750	S, L or LK	23	23	23	23	23
	QTWO175	1750	X or XK	23	23	23	23	23
	QTWO200	2000	S, L or LK	23	23	23	23	23
QTWO200	2000	X or XK	23	23	23	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		MERCEDES	MERCEDES	MERCEDES	MERCEDES	MERCEDES	
	MODEL NUMBER		MBE 4000	MBE 4000	MBE 4000	MBE 4000	MBE 4000	MBE 4000
	DISPLACEMENT		781	781	781	781	781	781
	RATED HP		370	410	410	435	450	450
	GOVERNED SPEED		2000	2000	2000	2000	2000	2000
	PEAK TORQUE		1350	1450	1550	1550	1550	1550
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L					
	QPAK50	500	X	25	25	25	25	25
	QPAK75	750	L					
	QPAK75	750	X	25	25	25	25	25
	QPAK100	1000	L					
	QPAK100	1000	X	25	25	25	25	25
	QFLO75	750	L					
	QFLO75	750	X	25	25	25	25	25
	QFLO100	1000	L					
	QFLO100	1000	X	25	25	25	25	25
	QFLO125	1250	L					
	QFLO125	1250	X	25	25	25	25	25
	QMID100	1000	S or L	23	23	23	23	23
	QMID100	1000	X	23	23	23	23	23
	QMID125	1250	S or L	23	23	23	23	23
	QMID125	1250	X	23	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23	23
	QMAX150	1500	S, L or LK	23	23	23	23	23
	QMAX150	1500	X or XK	23	23	23	23	23
	QMAX175	1750	S, L or LK	23	23	23	23	23
	QMAX175	1750	X or XK	23	23	23	23	23
	QMAX200	2000	S, L or LK	23	23	23	23	23
	QMAX200	2000	X or XK	23	23	23	23	23
	QMAX225	2250	S, L or LK	23	23	23	23	23
	QMAX225	2250	X or XK	23	23	23	23	23
	DSD75	750	L					
	DSD75	750	X	28	28	28	28	28
	DSD100	1000	L					
	DSD100	1000	X	28	28	28	28	28
	DSD125	1250	L					
	DSD125	1250	X	28	28	28	28	28
	DSD150	1500	L					
	DSD150	1500	X	28	28	28	28	28
	SMM/SMD	1250	X	23	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23	23
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
TWO STAGE								
QTWO100	1000	S, L or LK	23	23	23	23	23	
QTWO100	1000	X or XK	23	23	23	23	23	
QTWO125	1250	S, L or LK	23	23	23	23	23	
QTWO125	1250	X or XK	23	23	23	23	23	
QTWO150	1500	S, L or LK	23	23	23	23	23	
QTWO150	1500	X or XK	23	23	23	23	23	
QTWO175	1750	S, L or LK	23	23	23	23	23	
QTWO175	1750	X or XK	23	23	23	23	23	
QTWO200	2000	S, L or LK	23	23	23	23	23	
QTWO200	2000	X or XK	23	23	23	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			MERCEDES	MERCEDES	MERCEDES	MERCEDES	MERCEDES
	MODEL NUMBER			MBE 904	MBE 906	MBE 906	MBE 906	MBE 906
	DISPLACEMENT			259	388	388	388	388
	RATED HP			170	190	210	210	230
	GOVERNED SPEED			2500	2500	2500	2500	2500
	PEAK TORQUE			420	520	520	605	660
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	<b>SINGLE STAGE</b>							
	QPAK50	500	L	21	23	21	23	23
	QPAK50	500	X	21	23	21	23	23
	QPAK75	750	L		23	21	23	23
	QPAK75	750	X		23	21	23	23
	QPAK100	1000	L			21	23	23
	QPAK100	1000	X			19	23	23
	QFLO75	750	L					23
	QFLO75	750	X					23
	QFLO100	1000	L					23
	QFLO100	1000	X					23
	QFLO125	1250	L					
	QFLO125	1250	X					
	QMID100	1000	S or L					19
	QMID100	1000	X					19
	QMID125	1250	S or L					
	QMID125	1250	X					
	QMAX100	1000	S, L or LK					19
	QMAX100	1000	X or XK					19
	QMAX125	1250	S, L or LK					
	QMAX125	1250	X or XK					
	QMAX150	1500	S, L or LK					
	QMAX150	1500	X or XK					
	QMAX175	1750	S, L or LK					
	QMAX175	1750	X or XK					
	QMAX200	2000	S, L or LK					
	QMAX200	2000	X or XK					
	QMAX225	2250	S, L or LK					
	QMAX225	2250	X or XK					
	DSD75	750	L		21	23	23	23
	DSD75	750	X		21	23	23	23
	DSD100	1000	L				23	23
	DSD100	1000	X				23	23
	DSD125	1250	L					
	DSD125	1250	X					21
	DSD150	1500	L					
	DSD150	1500	X					
	SMM/SMD	1250	X					
	SMM/SMD	1500	X					
	MG50	500		26	26	26	30	30
	MG75	750			26	26	30	30
	MG100	1000					26	30
<b>TWO STAGE</b>								
QTWO100	1000	S, L or LK					17	
QTWO100	1000	X or XK						
QTWO125	1250	S, L or LK						
QTWO125	1250	X or XK						
QTWO150	1500	S, L or LK						
QTWO150	1500	X or XK						
QTWO175	1750	S, L or LK						
QTWO175	1750	X or XK						
QTWO200	2000	S, L or LK						
QTWO200	2000	X or XK						

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		MERCEDES	MERCEDES	MERCEDES	MERCEDES	MERCEDES	
	MODEL NUMBER		MBE 906	MBE 906	MBE 924	MBE 926	MBE 926	MBE 926
	DISPLACEMENT		388	388	296	439	439	439
	RATED HP		250	260	190	250	280	280
	GOVERNED SPEED		2500	2500	2500	2500	2500	2500
	PEAK TORQUE		660	700	520	800	800	800
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23		23	23
	QPAK100	1000	X	23	23		23	23
	QFLO75	750	L	23	23		23	23
	QFLO75	750	X	23	23		23	23
	QFLO100	1000	L	23	23		23	23
	QFLO100	1000	X	23	23		23	23
	QFLO125	1250	L	21	21		23	23
	QFLO125	1250	X	21	21		23	23
	QMID100	1000	S or L	21	21		23	23
	QMID100	1000	X	21	21		23	23
	QMID125	1250	S or L	19	19		23	23
	QMID125	1250	X	19	19		23	23
	QMAX100	1000	S, L or LK	21	21		23	23
	QMAX100	1000	X or XK	21	21		23	23
	QMAX125	1250	S, L or LK	19	19		23	23
	QMAX125	1250	X or XK	19	19		23	23
	QMAX150	1500	S, L or LK					19
	QMAX150	1500	X or XK					19
	QMAX175	1750	S, L or LK					
	QMAX175	1750	X or XK					
	QMAX200	2000	S, L or LK					
	QMAX200	2000	X or XK					
	QMAX225	2250	S, L or LK					
	QMAX225	2250	X or XK					
	DSD75	750	L	23	23	21	23	23
	DSD75	750	X	23	23	21	23	23
	DSD100	1000	L	23	23		23	23
	DSD100	1000	X	23	23		23	23
	DSD125	1250	L	21	23		23	23
	DSD125	1250	X	21	23		23	23
	DSD150	1500	L					
	DSD150	1500	X					
	SMM/SMD	1250	X					
	SMM/SMD	1500	X					
	MG50	500		30	30	30	30	30
	MG75	750		30	30	26	30	30
	MG100	1000		30	30		30	30
TWO STAGE								
QTWO100	1000	S, L or LK	19	19		21	21	
QTWO100	1000	X or XK	19	19		21	21	
QTWO125	1250	S, L or LK	17	17		21	21	
QTWO125	1250	X or XK				21	21	
QTWO150	1500	S, L or LK					17	
QTWO150	1500	X or XK						
QTWO175	1750	S, L or LK						
QTWO175	1750	X or XK						
QTWO200	2000	S, L or LK						
QTWO200	2000	X or XK						

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			MERCEDES	MERCEDES	DETROIT	DETROIT	DETROIT
	MODEL NUMBER			MBE 926	MBE 926	SERIES 60	SERIES 60	SERIES 60
	DISPLACEMENT			439	439	778	778	778
	RATED HP			300	330	380	390	425
	GOVERNED SPEED			2500	2500	2100	2100	2100
	PEAK TORQUE			1000	860	1350	1350	1450
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23	23	23	23
	QPAK100	1000	X	23	23	23	23	23
	QFLO75	750	L	23	23	23	23	23
	QFLO75	750	X	23	23	23	23	23
	QFLO100	1000	L	23	23	23	23	23
	QFLO100	1000	X	23	23	23	23	23
	QFLO125	1250	L	23	23	23	23	23
	QFLO125	1250	X	23	23	23	23	23
	QMID100	1000	S or L	23	23	23	23	23
	QMID100	1000	X	23	23	23	23	23
	QMID125	1250	S or L	23	23	23	23	23
	QMID125	1250	X	23	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23	23
	QMAX150	1500	S, L or LK	23	21	23	23	23
	QMAX150	1500	X or XK	23	21	23	23	23
	QMAX175	1750	S, L or LK	23	19	23	23	23
	QMAX175	1750	X or XK	23		23	23	23
	QMAX200	2000	S, L or LK			23	23	23
	QMAX200	2000	X or XK			23	23	23
	QMAX225	2250	S, L or LK			23	23	23
	QMAX225	2250	X or XK			23	23	23
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	23	23	23	23	23
	DSD125	1250	X	23	23	23	23	23
	DSD150	1500	L	23	21	23	23	23
	DSD150	1500	X	23	21	23	23	23
	SMM/SMD	1250	X	21	19	23	23	23
	SMM/SMD	1500	X	19		23	23	23
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	21	21	23	23	23
	QTWO100	1000	X or XK	21	21	23	23	23
	QTWO125	1250	S, L or LK	21	21	23	23	23
	QTWO125	1250	X or XK	21	21	23	23	23
	QTWO150	1500	S, L or LK	21	21	23	23	23
	QTWO150	1500	X or XK	21	21	23	23	23
	QTWO175	1750	S, L or LK	21	21	23	23	23
	QTWO175	1750	X or XK	21		23	23	23
	QTWO200	2000	S, L or LK			23	23	23
QTWO200	2000	X or XK			23	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		DETROIT	DETROIT	DETROIT	DETROIT	DETROIT	
	MODEL NUMBER		SERIES 60	SERIES 60	SERIES 60	SERIES 60	SERIES 60	SERIES 60
	DISPLACEMENT		778	778	778	778	778	778
	RATED HP		435	445	445	450	455	455
	GOVERNED SPEED		2100	2100	2100	2100	2100	2100
	PEAK TORQUE		1450	1450	1550	1550	1550	1550
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23	23	23	23
	QPAK100	1000	X	23	23	23	23	23
	QFLO75	750	L	23	23	23	23	23
	QFLO75	750	X	23	23	23	23	23
	QFLO100	1000	L	23	23	23	23	23
	QFLO100	1000	X	23	23	23	23	23
	QFLO125	1250	L	23	23	23	23	23
	QFLO125	1250	X	23	23	23	23	23
	QMID100	1000	S or L	23	23	23	23	23
	QMID100	1000	X	23	23	23	23	23
	QMID125	1250	S or L	23	23	23	23	23
	QMID125	1250	X	23	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23	23
	QMAX150	1500	S, L or LK	23	23	23	23	23
	QMAX150	1500	X or XK	23	23	23	23	23
	QMAX175	1750	S, L or LK	23	23	23	23	23
	QMAX175	1750	X or XK	23	23	23	23	23
	QMAX200	2000	S, L or LK	23	23	23	23	23
	QMAX200	2000	X or XK	23	23	23	23	23
	QMAX225	2250	S, L or LK	23	23	23	23	23
	QMAX225	2250	X or XK	23	23	23	23	23
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	23	23	23	23	23
	DSD125	1250	X	23	23	23	23	23
	DSD150	1500	L	23	23	23	23	23
	DSD150	1500	X	23	23	23	23	23
	SMM/SMD	1250	X	23	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23	23
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	23	23	23	23	23
	QTWO100	1000	X or XK	23	23	23	23	23
	QTWO125	1250	S, L or LK	23	23	23	23	23
	QTWO125	1250	X or XK	23	23	23	23	23
QTWO150	1500	S, L or LK	23	23	23	23	23	
QTWO150	1500	X or XK	23	23	23	23	23	
QTWO175	1750	S, L or LK	23	23	23	23	23	
QTWO175	1750	X or XK	23	23	23	23	23	
QTWO200	2000	S, L or LK	23	23	23	23	23	
QTWO200	2000	X or XK	23	23	23	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			DETROIT	DETROIT	DETROIT	DETROIT	DETROIT
	MODEL NUMBER			SERIES 60	SERIES 60	SERIES 60	SERIES 60	SERIES 60
	DISPLACEMENT			858	858	858	858	858
	RATED HP			455	490	515	470	490
	GOVERNED SPEED			2100	2100	2100	2100	2100
	PEAK TORQUE			1550	1550	1550	1650	1650
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23	23	23	23
	QPAK100	1000	X	23	23	23	23	23
	QFLO75	750	L	23	23	23	23	23
	QFLO75	750	X	23	23	23	23	23
	QFLO100	1000	L	23	23	23	23	23
	QFLO100	1000	X	23	23	23	23	23
	QFLO125	1250	L	23	23	23	23	23
	QFLO125	1250	X	23	23	23	23	23
	QMID100	1000	S or L	23	23	23	23	23
	QMID100	1000	X	23	23	23	23	23
	QMID125	1250	S or L	23	23	23	23	23
	QMID125	1250	X	23	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23	23
	QMAX150	1500	S, L or LK	23	23	23	23	23
	QMAX150	1500	X or XK	23	23	23	23	23
	QMAX175	1750	S, L or LK	23	23	23	23	23
	QMAX175	1750	X or XK	23	23	23	23	23
	QMAX200	2000	S, L or LK	23	23	23	23	23
	QMAX200	2000	X or XK	23	23	23	23	23
	QMAX225	2250	S, L or LK	23	23	23	23	23
	QMAX225	2250	X or XK	23	23	23	23	23
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	23	23	23	23	23
	DSD125	1250	X	23	23	23	23	23
	DSD150	1500	L	23	23	23	23	23
	DSD150	1500	X	23	23	23	23	23
	SMM/SMD	1250	X	23	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23	23
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	23	23	23	23	23
	QTWO100	1000	X or XK	23	23	23	23	23
	QTWO125	1250	S, L or LK	23	23	23	23	23
	QTWO125	1250	X or XK	23	23	23	23	23
	QTWO150	1500	S, L or LK	23	23	23	23	23
	QTWO150	1500	X or XK	23	23	23	23	23
	QTWO175	1750	S, L or LK	23	23	23	23	23
	QTWO175	1750	X or XK	23	23	23	23	23
	QTWO200	2000	S, L or LK	23	23	23	23	23
QTWO200	2000	X or XK	23	23	23	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		DETROIT	DETROIT	DETROIT	DETROIT	DETROIT	
	MODEL NUMBER		SERIES 60	DD13	DD13	DD13	DD13	DD13
	DISPLACEMENT		858	781	781	781	781	781
	RATED HP		515	350	370	380	380	380
	GOVERNED SPEED		2100	2100	2100	2100	2100	2100
	PEAK TORQUE		1650	1350	1250	1350	1450	1450
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23	23	23	23
	QPAK100	1000	X	23	23	23	23	23
	QFLO75	750	L	23	23	23	23	23
	QFLO75	750	X	23	23	23	23	23
	QFLO100	1000	L	23	23	23	23	23
	QFLO100	1000	X	23	23	23	23	23
	QFLO125	1250	L	23	23	23	23	23
	QFLO125	1250	X	23	23	23	23	23
	QMID100	1000	S or L	23	23	23	23	23
	QMID100	1000	X	23	23	23	23	23
	QMID125	1250	S or L	23	23	23	23	23
	QMID125	1250	X	23	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23	23
	QMAX150	1500	S, L or LK	23	23	23	23	23
	QMAX150	1500	X or XK	23	23	23	23	23
	QMAX175	1750	S, L or LK	23	23	23	23	23
	QMAX175	1750	X or XK	23	23	23	23	23
	QMAX200	2000	S, L or LK	23	23	23	23	23
	QMAX200	2000	X or XK	23	23	23	23	23
	QMAX225	2250	S, L or LK	23			23	23
	QMAX225	2250	X or XK	23			23	23
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	23	23	23	23	23
	DSD125	1250	X	23	23	23	23	23
	DSD150	1500	L	23	23	23	23	23
	DSD150	1500	X	23	23	23	23	23
	SMM/SMD	1250	X	23	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23	23
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	23	23	23	23	23
	QTWO100	1000	X or XK	23	23	23	23	23
	QTWO125	1250	S, L or LK	23	23	23	23	23
	QTWO125	1250	X or XK	23	23	23	23	23
QTWO150	1500	S, L or LK	23	23	23	23	23	
QTWO150	1500	X or XK	23	23	23	23	23	
QTWO175	1750	S, L or LK	23	23	23	23	23	
QTWO175	1750	X or XK	23	23	23	23	23	
QTWO200	2000	S, L or LK	23	23	23	23	23	
QTWO200	2000	X or XK	23	23	23	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		DETROIT	DETROIT	DETROIT	DETROIT	DETROIT	
	MODEL NUMBER		DD13	DD13	DD13	DD13	DD13	DD13
	DISPLACEMENT		781	781	781	781	781	781
	RATED HP		410	410	410	435	450	
	GOVERNED SPEED		2100	2100	2100	2100	2100	2100
	PEAK TORQUE		1450	1550	1650	1550	1550	1550
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23	23	23	23
	QPAK100	1000	X	23	23	23	23	23
	QFLO75	750	L	23	23	23	23	23
	QFLO75	750	X	23	23	23	23	23
	QFLO100	1000	L	23	23	23	23	23
	QFLO100	1000	X	23	23	23	23	23
	QFLO125	1250	L	23	23	23	23	23
	QFLO125	1250	X	23	23	23	23	23
	QMID100	1000	S or L	23	23	23	23	23
	QMID100	1000	X	23	23	23	23	23
	QMID125	1250	S or L	23	23	23	23	23
	QMID125	1250	X	23	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23	23
	QMAX150	1500	S, L or LK	23	23	23	23	23
	QMAX150	1500	X or XK	23	23	23	23	23
	QMAX175	1750	S, L or LK	23	23	23	23	23
	QMAX175	1750	X or XK	23	23	23	23	23
	QMAX200	2000	S, L or LK	23	23	23	23	23
	QMAX200	2000	X or XK	23	23	23	23	23
	QMAX225	2250	S, L or LK	23	23	23	23	23
	QMAX225	2250	X or XK	23	23	23	23	23
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	23	23	23	23	23
	DSD125	1250	X	23	23	23	23	23
	DSD150	1500	L	23	23	23	23	23
	DSD150	1500	X	23	23	23	23	23
	SMM/SMD	1250	X	23	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23	23
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	23	23	23	23	23
	QTWO100	1000	X or XK	23	23	23	23	23
	QTWO125	1250	S, L or LK	23	23	23	23	23
	QTWO125	1250	X or XK	23	23	23	23	23
QTWO150	1500	S, L or LK	23	23	23	23	23	
QTWO150	1500	X or XK	23	23	23	23	23	
QTWO175	1750	S, L or LK	23	23	23	23	23	
QTWO175	1750	X or XK	23	23	23	23	23	
QTWO200	2000	S, L or LK	23	23	23	23	23	
QTWO200	2000	X or XK	23	23	23	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		DETROIT	DETROIT	NAVISTAR	NAVISTAR	NAVISTAR
	MODEL NUMBER		DD13	DD13	DT466	DT466	DT466
	DISPLACEMENT		781	781	465	465	465
	RATED HP		450	470	210	220	225
	GOVERNED SPEED		2100	2100	2600	2600	2600
	PEAK TORQUE		1650	1650	520	540	560
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE						
	QPAK50	500	L	23	23	23	23
	QPAK50	500	X	23	23	23	23
	QPAK75	750	L	23	23	23	23
	QPAK75	750	X	23	23	23	23
	QPAK100	1000	L	23	23	21	21
	QPAK100	1000	X	23	23	21	21
	QFLO75	750	L	23	23		21
	QFLO75	750	X	23	23		19
	QFLO100	1000	L	23	23		
	QFLO100	1000	X	23	23		
	QFLO125	1250	L	23	23		
	QFLO125	1250	X	23	23		
	QMID100	1000	S or L	23	23		
	QMID100	1000	X	23	23		
	QMID125	1250	S or L	23	23		
	QMID125	1250	X	23	23		
	QMAX100	1000	S, L or LK	23	23		
	QMAX100	1000	X or XK	23	23		
	QMAX125	1250	S, L or LK	23	23		
	QMAX125	1250	X or XK	23	23		
	QMAX150	1500	S, L or LK	23	23		
	QMAX150	1500	X or XK	23	23		
	QMAX175	1750	S, L or LK	23	23		
	QMAX175	1750	X or XK	23	23		
	QMAX200	2000	S, L or LK	23	23		
	QMAX200	2000	X or XK	23	23		
	QMAX225	2250	S, L or LK	23	23		
	QMAX225	2250	X or XK	23	23		
	DSD75	750	L	23	23	21	21
	DSD75	750	X	23	23	21	21
	DSD100	1000	L	23	23		21
	DSD100	1000	X	23	23		19
	DSD125	1250	L	23	23		
	DSD125	1250	X	23	23		
	DSD150	1500	L	23	23		
	DSD150	1500	X	23	23		
	SMM/SMD	1250	X	23	23		
	SMM/SMD	1500	X	23	23		
	MG50	500		30	30	26	30
	MG75	750		30	30	26	30
	MG100	1000		30	30		
TWO STAGE							
QTWO100	1000	S, L or LK	23	23			
QTWO100	1000	X or XK	23	23		17	
QTWO125	1250	S, L or LK	23	23			
QTWO125	1250	X or XK	23	23			
QTWO150	1500	S, L or LK	23	23			
QTWO150	1500	X or XK	23	23			
QTWO175	1750	S, L or LK	23	23			
QTWO175	1750	X or XK	23	23			
QTWO200	2000	S, L or LK	23	23			
QTWO200	2000	X or XK	23	23			

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	
	MODEL NUMBER		DT466	DT466	DT466	DT466	DT466	DT466
	DISPLACEMENT		465	465	465	465	465	465
	RATED HP		225	245	245	255	260	260
	GOVERNED SPEED		2400	2600	2600	2600	2400	2400
	PEAK TORQUE		620	620	660	660	800	800
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23	23	23	23
	QPAK100	1000	X	23	23	23	23	23
	QFLO75	750	L	21	23	23	23	23
	QFLO75	750	X	21	23	23	23	23
	QFLO100	1000	L	21	21	23	23	23
	QFLO100	1000	X	21	21	23	23	23
	QFLO125	1250	L		19			23
	QFLO125	1250	X		19			23
	QMID100	1000	S or L	19	19	21	21	21
	QMID100	1000	X	19	19	21	21	21
	QMID125	1250	S or L			19	19	21
	QMID125	1250	X			19	19	21
	QMAX100	1000	S, L or LK	19	19	21	21	21
	QMAX100	1000	X or XK	19	19	21	21	21
	QMAX125	1250	S, L or LK			19	19	21
	QMAX125	1250	X or XK			19	19	21
	QMAX150	1500	S, L or LK					
	QMAX150	1500	X or XK					
	QMAX175	1750	S, L or LK					
	QMAX175	1750	X or XK					
	QMAX200	2000	S, L or LK					
	QMAX200	2000	X or XK					
	QMAX225	2250	S, L or LK					
	QMAX225	2250	X or XK					
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L		21	21	21	23
	DSD125	1250	X		21	21	21	23
	DSD150	1500	L					
	DSD150	1500	X					
	SMM/SMD	1250	X					
	SMM/SMD	1500	X					
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	19	19	19	19	21
	QTWO100	1000	X or XK			19	19	19
	QTWO125	1250	S, L or LK			17	17	19
	QTWO125	1250	X or XK					19
	QTWO150	1500	S, L or LK					
	QTWO150	1500	X or XK					
	QTWO175	1750	S, L or LK					
	QTWO175	1750	X or XK					
	QTWO200	2000	S, L or LK					
QTWO200	2000	X or XK						

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	
	MODEL NUMBER		DT466	DT466	DT570	DT570	DT570	DT570
	DISPLACEMENT		465	465	570	570	570	570
	RATED HP		285	300	285	295	310	310
	GOVERNED SPEED		2400	2400	2200	2200	2200	2200
	PEAK TORQUE		800	860	800	950	950	950
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23	23	23	23
	QPAK100	1000	X	23	23	23	23	23
	QFLO75	750	L	23	23	23	23	23
	QFLO75	750	X	23	23	23	23	23
	QFLO100	1000	L	23	23	23	23	23
	QFLO100	1000	X	23	23	23	23	23
	QFLO125	1250	L	23	23	23	23	23
	QFLO125	1250	X	23	23	23	23	23
	QMID100	1000	S or L	21	21	23	23	23
	QMID100	1000	X	21	21	23	23	23
	QMID125	1250	S or L	21	21	23	23	23
	QMID125	1250	X	21	21	23	23	23
	QMAX100	1000	S, L or LK	21	21	23	23	23
	QMAX100	1000	X or XK	21	21	23	23	23
	QMAX125	1250	S, L or LK	21	21	23	23	23
	QMAX125	1250	X or XK	21	21	23	23	23
	QMAX150	1500	S, L or LK	19	21		23	23
	QMAX150	1500	X or XK	19	21		23	23
	QMAX175	1750	S, L or LK		19		21	21
	QMAX175	1750	X or XK		19		21	21
	QMAX200	2000	S, L or LK					
	QMAX200	2000	X or XK					
	QMAX225	2250	S, L or LK					
	QMAX225	2250	X or XK					
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	23	23	23	23	23
	DSD125	1250	X	23	23	23	23	23
	DSD150	1500	L		21		23	23
	DSD150	1500	X		21		23	23
	SMM/SMD	1250	X		19		21	21
	SMM/SMD	1500	X					
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
TWO STAGE								
QTWO100	1000	S, L or LK	19	19	21	23	23	
QTWO100	1000	X or XK	19	19	21	23	23	
QTWO125	1250	S, L or LK	19	19	21	23	23	
QTWO125	1250	X or XK	19	19	21	23	23	
QTWO150	1500	S, L or LK	19	19	19	23	23	
QTWO150	1500	X or XK	19	19	19	23	23	
QTWO175	1750	S, L or LK						
QTWO175	1750	X or XK						
QTWO200	2000	S, L or LK						
QTWO200	2000	X or XK						

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	
	MODEL NUMBER				DT570	DT570	DT570	DT570	MaxxForce 9
	DISPLACEMENT				570	570	570	570	570
	RATED HP				310	330	330	340	300
	GOVERNED SPEED				2200	2200	2100	2100	2200
	PEAK TORQUE				1050	950	1150	1150	860
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE								
	QPAK50	500	L	23	23	23	23	23	
	QPAK50	500	X	23	23	23	23	23	
	QPAK75	750	L	23	23	23	23	23	
	QPAK75	750	X	23	23	23	23	23	
	QPAK100	1000	L	23	23	23	23	23	
	QPAK100	1000	X	23	23	23	23	23	
	QFLO75	750	L	23	23	23	23	23	
	QFLO75	750	X	23	23	23	23	23	
	QFLO100	1000	L	23	23	23	23	23	
	QFLO100	1000	X	23	23	23	23	23	
	QFLO125	1250	L	23	23	23	23	23	
	QFLO125	1250	X	23	23	23	23	23	
	QMID100	1000	S or L	23	23	23	23	23	
	QMID100	1000	X	23	23	23	23	23	
	QMID125	1250	S or L	23	23	23	23	23	
	QMID125	1250	X	23	23	23	23	23	
	QMAX100	1000	S, L or LK	23	23	23	23	23	
	QMAX100	1000	X or XK	23	23	23	23	23	
	QMAX125	1250	S, L or LK	23	23	23	23	23	
	QMAX125	1250	X or XK	23	23	23	23	23	
	QMAX150	1500	S, L or LK	23	23	23	23	21	
	QMAX150	1500	X or XK	23	23	23	23	21	
	QMAX175	1750	S, L or LK	23	21	23	23	21	
	QMAX175	1750	X or XK	23	21	23	23	21	
	QMAX200	2000	S, L or LK			23	23		
	QMAX200	2000	X or XK			23	23		
	QMAX225	2250	S, L or LK						
	QMAX225	2250	X or XK						
	DSD75	750	L	23	23	23	23	23	
	DSD75	750	X	23	23	23	23	23	
	DSD100	1000	L	23	23	23	23	23	
	DSD100	1000	X	23	23	23	23	23	
	DSD125	1250	L	23	23	23	23	23	
	DSD125	1250	X	23	23	23	23	23	
	DSD150	1500	L	23	23	23	23	21	
	DSD150	1500	X	23	23	23	23	21	
	SMM/SMD	1250	X	21	21	23	23	19	
	SMM/SMD	1500	X			23	23		
	MG50	500		30	30	30	30	30	
	MG75	750		30	30	30	30	30	
	MG100	1000		30	30	30	30	30	
TWO STAGE									
QTWO100	1000	S, L or LK	23	23	23	23	23		
QTWO100	1000	X or XK	23	23	23	23	23		
QTWO125	1250	S, L or LK	23	23	23	23	21		
QTWO125	1250	X or XK	23	23	23	23	21		
QTWO150	1500	S, L or LK	23	23	23	23	21		
QTWO150	1500	X or XK	23	23	23	23	21		
QTWO175	1750	S, L or LK	23		23	23			
QTWO175	1750	X or XK	23		23	23			
QTWO200	2000	S, L or LK				23			
QTWO200	2000	X or XK				23			

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR
	MODEL NUMBER			MaxxForce 9	MaxxForce 9	MaxxForce 10	MaxxForce 10	MaxxForce 10
	DISPLACEMENT			570	570	570	570	570
	RATED HP			315	330	310	330	350
	GOVERNED SPEED			2200	2200	2200	2200	2200
	PEAK TORQUE			950	950	1050	1150	1150
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	23	23	23	23
	QPAK50	500	X	23	23	23	23	23
	QPAK75	750	L	23	23	23	23	23
	QPAK75	750	X	23	23	23	23	23
	QPAK100	1000	L	23	23	23	23	23
	QPAK100	1000	X	23	23	23	23	23
	QFLO75	750	L	23	23	23	23	23
	QFLO75	750	X	23	23	23	23	23
	QFLO100	1000	L	23	23	23	23	23
	QFLO100	1000	X	23	23	23	23	23
	QFLO125	1250	L	23	23	23	23	23
	QFLO125	1250	X	23	23	23	23	23
	QMID100	1000	S or L	23	23	23	23	23
	QMID100	1000	X	23	23	23	23	23
	QMID125	1250	S or L	23	23	23	23	23
	QMID125	1250	X	23	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23	23
	QMAX150	1500	S, L or LK	23	23	23	23	23
	QMAX150	1500	X or XK	23	23	23	23	23
	QMAX175	1750	S, L or LK	21	21	23	23	23
	QMAX175	1750	X or XK	21	21	23	23	23
	QMAX200	2000	S, L or LK				23	23
	QMAX200	2000	X or XK				23	23
	QMAX225	2250	S, L or LK					
	QMAX225	2250	X or XK					
	DSD75	750	L	23	23	23	23	23
	DSD75	750	X	23	23	23	23	23
	DSD100	1000	L	23	23	23	23	23
	DSD100	1000	X	23	23	23	23	23
	DSD125	1250	L	23	23	23	23	23
	DSD125	1250	X	23	23	23	23	23
	DSD150	1500	L	23	23	23	23	23
	DSD150	1500	X	23	23	23	23	23
	SMM/SMD	1250	X	21	21	23	23	23
	SMM/SMD	1500	X			21	23	23
	MG50	500		30	30	30	30	30
	MG75	750		30	30	30	30	30
	MG100	1000		30	30	30	30	30
	TWO STAGE							
	QTWO100	1000	S, L or LK	23	23	23	23	23
	QTWO100	1000	X or XK	23	23	23	23	23
	QTWO125	1250	S, L or LK	23	23	23	23	23
	QTWO125	1250	X or XK	23	23	23	23	23
	QTWO150	1500	S, L or LK	21	21	23	23	23
	QTWO150	1500	X or XK	21	21	23	23	23
	QTWO175	1750	S, L or LK			21	23	23
	QTWO175	1750	X or XK			21	23	23
	QTWO200	2000	S, L or LK					23
QTWO200	2000	X or XK					23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR
	MODEL NUMBER		MaxxForce 11	MaxxForce 11	MaxxForce 11	MaxxForce 13	MaxxForce 13
	DISPLACEMENT		641	641	641	758	758
	RATED HP		330	370	390	410	430
	GOVERNED SPEED		2100	2100	2100	2100	2100
	PEAK TORQUE		1250	1350	1450	1450	1550
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE						
	QPAK50	500	L	23	23	23	23
	QPAK50	500	X	23	23	23	23
	QPAK75	750	L	23	23	23	23
	QPAK75	750	X	23	23	23	23
	QPAK100	1000	L	23	23	23	23
	QPAK100	1000	X	23	23	23	23
	QFLO75	750	L	23	23	23	23
	QFLO75	750	X	23	23	23	23
	QFLO100	1000	L	23	23	23	23
	QFLO100	1000	X	23	23	23	23
	QFLO125	1250	L	23	23	23	23
	QFLO125	1250	X	23	23	23	23
	QMID100	1000	S or L	23	23	23	23
	QMID100	1000	X	23	23	23	23
	QMID125	1250	S or L	23	23	23	23
	QMID125	1250	X	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23
	QMAX150	1500	S, L or LK	23	23	23	23
	QMAX150	1500	X or XK	23	23	23	23
	QMAX175	1750	S, L or LK	23	23	23	23
	QMAX175	1750	X or XK	23	23	23	23
	QMAX200	2000	S, L or LK	23	23	23	23
	QMAX200	2000	X or XK	23	23	23	23
	QMAX225	2250	S, L or LK		23	23	23
	QMAX225	2250	X or XK		23	23	23
	DSD75	750	L	23	23	23	23
	DSD75	750	X	23	23	23	23
	DSD100	1000	L	23	23	23	23
	DSD100	1000	X	23	23	23	23
	DSD125	1250	L	23	23	23	23
	DSD125	1250	X	23	23	23	23
	DSD150	1500	L	23	23	23	23
	DSD150	1500	X	23	23	23	23
	SMM/SMD	1250	X	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23
	MG50	500		30	30	30	30
	MG75	750		30	30	30	30
	MG100	1000		30	30	30	30
	TWO STAGE						
	QTWO100	1000	S, L or LK	23	23	23	23
	QTWO100	1000	X or XK	23	23	23	23
	QTWO125	1250	S, L or LK	23	23	23	23
	QTWO125	1250	X or XK	23	23	23	23
	QTWO150	1500	S, L or LK	23	23	23	23
	QTWO150	1500	X or XK	23	23	23	23
	QTWO175	1750	S, L or LK	23	23	23	23
	QTWO175	1750	X or XK	23	23	23	23
	QTWO200	2000	S, L or LK		23	23	23
QTWO200	2000	X or XK		23	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR
	MODEL NUMBER		MaxxForce 13	MaxxForce 15	MaxxForce 15	MaxxForce 15	MaxxForce 15
	DISPLACEMENT		758	928	928	928	928
	RATED HP		475	450	450	500	500
	GOVERNED SPEED		2100	2100	2100	2100	2100
	PEAK TORQUE		1700	1550	1750	1650	1850
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE						
	QPAK50	500	L	23	23	23	23
	QPAK50	500	X	23	23	23	23
	QPAK75	750	L	23	23	23	23
	QPAK75	750	X	23	23	23	23
	QPAK100	1000	L	23	23	23	23
	QPAK100	1000	X	23	23	23	23
	QFLO75	750	L	23	23	23	23
	QFLO75	750	X	23	23	23	23
	QFLO100	1000	L	23	23	23	23
	QFLO100	1000	X	23	23	23	23
	QFLO125	1250	L	23	23	23	23
	QFLO125	1250	X	23	23	23	23
	QMID100	1000	S or L	23	23	23	23
	QMID100	1000	X	23	23	23	23
	QMID125	1250	S or L	23	23	23	23
	QMID125	1250	X	23	23	23	23
	QMAX100	1000	S, L or LK	23	23	23	23
	QMAX100	1000	X or XK	23	23	23	23
	QMAX125	1250	S, L or LK	23	23	23	23
	QMAX125	1250	X or XK	23	23	23	23
	QMAX150	1500	S, L or LK	23	23	23	23
	QMAX150	1500	X or XK	23	23	23	23
	QMAX175	1750	S, L or LK	23	23	23	23
	QMAX175	1750	X or XK	23	23	23	23
	QMAX200	2000	S, L or LK	23	23	23	23
	QMAX200	2000	X or XK	23	23	23	23
	QMAX225	2250	S, L or LK	23	23	23	23
	QMAX225	2250	X or XK	23	23	23	23
	DSD75	750	L	23	23	23	23
	DSD75	750	X	23	23	23	23
	DSD100	1000	L	23	23	23	23
	DSD100	1000	X	23	23	23	23
	DSD125	1250	L	23	23	23	23
	DSD125	1250	X	23	23	23	23
	DSD150	1500	L	23	23	23	23
	DSD150	1500	X	23	23	23	23
	SMM/SMD	1250	X	23	23	23	23
	SMM/SMD	1500	X	23	23	23	23
	MG50	500		30	30	30	30
	MG75	750		30	30	30	30
	MG100	1000		30	30	30	30
	TWO STAGE						
	QTWO100	1000	S, L or LK	23	23	23	23
	QTWO100	1000	X or XK	23	23	23	23
	QTWO125	1250	S, L or LK	23	23	23	23
	QTWO125	1250	X or XK	23	23	23	23
	QTWO150	1500	S, L or LK	23	23	23	23
	QTWO150	1500	X or XK	23	23	23	23
	QTWO175	1750	S, L or LK	23	23	23	23
	QTWO175	1750	X or XK	23	23	23	23
	QTWO200	2000	S, L or LK	23	23	23	23
QTWO200	2000	X or XK	23	23	23	23	

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	
	MODEL NUMBER		MaxxForce 15	VT365	VT365	VT365	VT365	VT365
	DISPLACEMENT		928	364	364	364	364	364
	RATED HP		550	175	200	215	230	230
	GOVERNED SPEED		2100	2800	2800	2800	2800	2800
	PEAK TORQUE		1850	460	520	540	540	540
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23	21	23	23	23
	QPAK50	500	X	23	21	23	23	23
	QPAK75	750	L	23	21	23	23	23
	QPAK75	750	X	23	21	23	23	23
	QPAK100	1000	L	23			21	21
	QPAK100	1000	X	23			21	21
	QFLO75	750	L	23				19
	QFLO75	750	X	23				19
	QFLO100	1000	L	23				19
	QFLO100	1000	X	23				19
	QFLO125	1250	L	23				
	QFLO125	1250	X	23				
	QMID100	1000	S or L	23				
	QMID100	1000	X	23				
	QMID125	1250	S or L	23				
	QMID125	1250	X	23				
	QMAX100	1000	S, L or LK	23				
	QMAX100	1000	X or XK	23				
	QMAX125	1250	S, L or LK	23				
	QMAX125	1250	X or XK	23				
	QMAX150	1500	S, L or LK	23				
	QMAX150	1500	X or XK	23				
	QMAX175	1750	S, L or LK	23				
	QMAX175	1750	X or XK	23				
	QMAX200	2000	S, L or LK	23				
	QMAX200	2000	X or XK	23				
	QMAX225	2250	S, L or LK	23				
	QMAX225	2250	X or XK	23				
	DSD75	750	L	23		21	21	21
	DSD75	750	X	23		21	21	21
	DSD100	1000	L	23				19
	DSD100	1000	X	23				19
	DSD125	1250	L	23				
	DSD125	1250	X	23				
	DSD150	1500	L	23				
	DSD150	1500	X	23				
	SMM/SMD	1250	X	23				
	SMM/SMD	1500	X	23				
	MG50	500		30	26	26	30	30
	MG75	750		30	21	26	30	30
	MG100	1000		30				
TWO STAGE								
QTWO100	1000	S, L or LK	23					
QTWO100	1000	X or XK	23					
QTWO125	1250	S, L or LK	23					
QTWO125	1250	X or XK	23					
QTWO150	1500	S, L or LK	23					
QTWO150	1500	X or XK	23					
QTWO175	1750	S, L or LK	23					
QTWO175	1750	X or XK	23					
QTWO200	2000	S, L or LK	23					
QTWO200	2000	X or XK	23					

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER			NAVISTAR	VOLVO	VOLVO	VOLVO	VOLVO	
	MODEL NUMBER				VT365	D12D 365	D12D 395	D12D 425	D12D 435
	DISPLACEMENT				365	740	740	740	740
	RATED HP				230	365	395	425	435
	GOVERNED SPEED				2800	2100	2100	2100	2100
	PEAK TORQUE				620	1350	1450	1450	1550
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE								
	QPAK50	500	L	21	23	23	23	23	
	QPAK50	500	X	21	23	23	23	23	
	QPAK75	750	L	21	23	23	23	23	
	QPAK75	750	X	21	23	23	23	23	
	QPAK100	1000	L	21	23	23	23	23	
	QPAK100	1000	X	21	23	23	23	23	
	QFLO75	750	L	21	23	23	23	23	
	QFLO75	750	X	21	23	23	23	23	
	QFLO100	1000	L	21	23	23	23	23	
	QFLO100	1000	X	21	23	23	23	23	
	QFLO125	1250	L		23	23	23	23	
	QFLO125	1250	X		23	23	23	23	
	QMID100	1000	S or L	19	23	23	23	23	
	QMID100	1000	X	19	23	23	23	23	
	QMID125	1250	S or L		23	23	23	23	
	QMID125	1250	X		23	23	23	23	
	QMAX100	1000	S, L or LK	19	23	23	23	23	
	QMAX100	1000	X or XK	19	23	23	23	23	
	QMAX125	1250	S, L or LK		23	23	23	23	
	QMAX125	1250	X or XK		23	23	23	23	
	QMAX150	1500	S, L or LK		23	23	23	23	
	QMAX150	1500	X or XK		23	23	23	23	
	QMAX175	1750	S, L or LK		23	23	23	23	
	QMAX175	1750	X or XK		23	23	23	23	
	QMAX200	2000	S, L or LK		23	23	23	23	
	QMAX200	2000	X or XK		23	23	23	23	
	QMAX225	2250	S, L or LK			23	23	23	
	QMAX225	2250	X or XK			23	23	23	
	DSD75	750	L	23	23	23	23	23	
	DSD75	750	X	23	23	23	23	23	
	DSD100	1000	L	23	23	23	23	23	
	DSD100	1000	X	23	23	23	23	23	
	DSD125	1250	L		23	23	23	23	
	DSD125	1250	X		23	23	23	23	
	DSD150	1500	L		23	23	23	23	
	DSD150	1500	X		23	23	23	23	
	SMM/SMD	1250	X						
	SMM/SMD	1500	X						
	MG50	500		26	30	30	30	30	
	MG75	750		26	30	30	30	30	
	MG100	1000		26	30	30	30	30	
TWO STAGE									
QTWO100	1000	S, L or LK	19	21	21	21	21		
QTWO100	1000	X or XK		21	21	21	21		
QTWO125	1250	S, L or LK		21	21	21	21		
QTWO125	1250	X or XK		21	21	21	21		
QTWO150	1500	S, L or LK		21	21	21	21		
QTWO150	1500	X or XK		21	21	21	21		
QTWO175	1750	S, L or LK		21	21	21	21		
QTWO175	1750	X or XK		21	21	21	21		
QTWO200	2000	S, L or LK							
QTWO200	2000	X or XK							

## MIDSHIP MOUNTED PUMPS

ENGINE	MANUFACTURER		VOLVO					
		MODEL NUMBER	D12D 465					
		DISPLACEMENT	740					
		RATED HP	465					
		GOVERNED SPEED	2100					
		PEAK TORQUE	1650					
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX (S = SHORT, L = LONG, X = EXTRA LONG)	SINGLE STAGE							
	QPAK50	500	L	23				
	QPAK50	500	X	23				
	QPAK75	750	L	23				
	QPAK75	750	X	23				
	QPAK100	1000	L	23				
	QPAK100	1000	X	23				
	QFLO75	750	L	23				
	QFLO75	750	X	23				
	QFLO100	1000	L	23				
	QFLO100	1000	X	23				
	QFLO125	1250	L	23				
	QFLO125	1250	X	23				
	QMID100	1000	S or L	23				
	QMID100	1000	X	23				
	QMID125	1250	S or L	23				
	QMID125	1250	X	23				
	QMAX100	1000	S, L or LK	23				
	QMAX100	1000	X or XK	23				
	QMAX125	1250	S, L or LK	23				
	QMAX125	1250	X or XK	23				
	QMAX150	1500	S, L or LK	23				
	QMAX150	1500	X or XK	23				
	QMAX175	1750	S, L or LK	23				
	QMAX175	1750	X or XK	23				
	QMAX200	2000	S, L or LK	23				
	QMAX200	2000	X or XK	23				
	QMAX225	2250	S, L or LK	23				
	QMAX225	2250	X or XK	23				
	DSD75	750	L	23				
	DSD75	750	X	23				
	DSD100	1000	L	23				
	DSD100	1000	X	23				
	DSD125	1250	L	23				
	DSD125	1250	X	23				
	DSD150	1500	L	23				
	DSD150	1500	X	23				
	SMM/SMD	1250	X					
	SMM/SMD	1500	X					
	MG50	500		30				
	MG75	750		30				
	MG100	1000		30				
TWO STAGE								
QTWO100	1000	S, L or LK	21					
QTWO100	1000	X or XK	21					
QTWO125	1250	S, L or LK	21					
QTWO125	1250	X or XK	21					
QTWO150	1500	S, L or LK	21					
QTWO150	1500	X or XK	21					
QTWO175	1750	S, L or LK	21					
QTWO175	1750	X or XK	21					
QTWO200	2000	S, L or LK						
QTWO200	2000	X or XK						

## 8FGR/8FKR SERIES PUMPS

ENGINE	MANUFACTURER			CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR
	MODEL NUMBER			C9	C9	C9	C9	C11	C11
	DISPLACEMENT			537	537	537	567	677	677
	RATED HP			350	370	400	425	335	350
	GOVERNED SPEED			2100	2100	2100	2100	2100	2100
	PEAK TORQUE			1100	1100	1100	1250	1250	1350
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	17	17	17	19	19	19
	8FG	1500	RX or RXK	17RXK	17RXK	17RXK	19	19	19
	8FG	1750	R			17	19		
	8FG	1750	RX or RXK			17RXK	19		
	8FG	2000	R				19		
	8FG	2000	RX or RXK				19		
	8FG	2250	R						
	8FG	2250	RX or RXK						
	8FG	2500	R						
	8FG	2500	RX or RXK						
	8FG	2750	R						
	8FG	2750	RX or RXK						
	8FG	3000*	R		17	17	17		19
	8FG	3000*	RX or RXK		17RXK	17RXK	17RXK		19

ENGINE	MANUFACTURER			CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR
	MODEL NUMBER			C11	C11	C11	C13	C13	C13
	DISPLACEMENT			677	677	677	763	763	763
	RATED HP			350	370	370	410	430	470
	GOVERNED SPEED			2100	2100	2100	2100	2100	2100
	PEAK TORQUE			1450	1350	1450	1550	1650	1650
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	19	19	19	19	19	19
	8FG	1500	RX or RXK	19	19	19	19	19	19
	8FG	1750	R		19	19	19	19	19
	8FG	1750	RX or RXK		19	19	19	19	19
	8FG	2000	R		19	19	19	19	19
	8FG	2000	RX or RXK		19	19	19	19	19
	8FG	2250	R				19	19	19
	8FG	2250	RX or RXK				19	19	19
	8FG	2500	R					19	19
	8FG	2500	RX or RXK					19	19
	8FG	2750	R						19
	8FG	2750	RX or RXK						19
	8FG	3000*	R	19	19	19	19	19	19
	8FG	3000*	RX or RXK	19	19	19	19	19	19

ENGINE	MANUFACTURER			CATERPILLAR	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER			C13	ISC 360	ISC 380	ISL 330	ISL 345	ISL 350
	DISPLACEMENT			763	506	506	537	543	537
	RATED HP			525	360	380	330	345	350
	GOVERNED SPEED			2100	2200	2200	2200	2200	2200
	PEAK TORQUE			1650	1050	1050	1150	1150	1050
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	19	17	17	19	19	17
	8FG	1500	RX or RXK	19	17RXK	17RXK	19	19	17RXK
	8FG	1750	R	19					
	8FG	1750	RX or RXK	19					
	8FG	2000	R	19					
	8FG	2000	RX or RXK	19					
	8FG	2250	R	19					
	8FG	2250	RX or RXK	19					
	8FG	2500	R	19					
	8FG	2500	RX or RXK	19					
	8FG	2750	R	19					
	8FG	2750	RX or RXK	19					
	8FG	3000*	R	19				17	17
	8FG	3000*	RX or RXK	19				17RXK	17RXK

\*3000 GPM Industrial Rating per NFPA 1901

## 8FGR/8FKR SERIES PUMPS

ENGINE				MANUFACTURER	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	
				MODEL NUMBER	ISL 350	ISL 370	ISL 380	ISL 400	ISL 400EV	ISL 425	
				DISPLACEMENT	537	537	543	537	543	537	
				RATED HP	350	370	380	400	400	425	
				GOVERNED SPEED	2200	2200	2200	2200	2200	2200	
				PEAK TORQUE	1250	1200	1300	1200	1250	1200	
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R		17	17	19	17	19	19	
	8FG	1500	RX or RXK		19	19	19	19	19	19	
	8FG	1750	R				17	17	17	17	
	8FG	1750	RX or RXK				17RXK	17RXK	17RXK	17RXK	
	8FG	2000	R					17		17	
	8FG	2000	RX or RXK					17RXK		17RXK	
	8FG	2250	R								
	8FG	2250	RX or RXK								
	8FG	2500	R								
	8FG	2500	RX or RXK								
	8FG	2750	R								
	8FG	2750	RX or RXK								
	8FG	3000*	R		17	17	17	17	17	17	17
	8FG	3000*	RX or RXK		17RXK	17RXK	17RXK	17RXK	17RXK	17RXK	17RXK

ENGINE				MANUFACTURER	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
				MODEL NUMBER	ISL 450	ISM 340EV	ISM 365EV	ISM 380EV	ISM 385EV	ISM 385
				DISPLACEMENT	543	661	661	661	661	661
				RATED HP	450	340	365	380	385	385
				GOVERNED SPEED	2200	2100	2100	2100	2100	2100
				PEAK TORQUE	1250	1350	1350	1200	1350	1450
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R		19	19	19	19	19	19
	8FG	1500	RX or RXK		19	19	19	19	19	19
	8FG	1750	R		19				19	19
	8FG	1750	RX or RXK						19	19
	8FG	2000	R		19				19	19
	8FG	2000	RX or RXK						19	19
	8FG	2250	R							
	8FG	2250	RX or RXK							
	8FG	2500	R							
	8FG	2500	RX or RXK							
	8FG	2750	R							
	8FG	2750	RX or RXK							
	8FG	3000*	R		19		19	19	19	19
	8FG	3000*	RX or RXK		19		19	19	19	19

ENGINE				MANUFACTURER	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
				MODEL NUMBER	ISM 400EV	ISM 400	ISM 430	ISM 435	ISM 450	ISM 450
				DISPLACEMENT	661	661	661	661	661	661
				RATED HP	400	400	430	435	450	450
				GOVERNED SPEED	2100	2100	2100	2100	2100	2100
				PEAK TORQUE	1450	1450	1450	1550	1450	1550
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R		19	19	19	19	19	19
	8FG	1500	RX or RXK		19	19	19	19	19	19
	8FG	1750	R		19	19	19	19	19	19
	8FG	1750	RX or RXK		19	19	19	19	19	19
	8FG	2000	R		19	19	19	19	19	19
	8FG	2000	RX or RXK		19	19	19	19	19	19
	8FG	2250	R		19	19	19	19	19	19
	8FG	2250	RX or RXK		19	19	19	19	19	19
	8FG	2500	R				19	19	19	19
	8FG	2500	RX or RXK				19	19	19	19
	8FG	2750	R							
	8FG	2750	RX or RXK							
	8FG	3000*	R		19	19	19	19	19	19
	8FG	3000*	RX or RXK		19	19	19	19	19	19

\*3000 GPM Industrial Rating per NFPA 1901

## 8FGR/8FKR SERIES PUMPS

ENGINE	MANUFACTURER			CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER			ISM 475	ISM 500EV	ISM 500	ISX 450	ISX 525	ISX 650
	DISPLACEMENT			661	661	661	912	912	912
	RATED HP			475	500	500	450	525	650
	GOVERNED SPEED			2100	2100	2100	2100	2000	2100
	PEAK TORQUE			1550	1450	1550	1450	1650	1950
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	17	17	17	19	19	19
	8FG	1500	RX or RXK	19	19	19	19	19	19
	8FG	1750	R	17	17	17	19	19	19
	8FG	1750	RX or RXK	19	19	19	19	19	19
	8FG	2000	R	17	17	17	19	19	19
	8FG	2000	RX or RXK	19	19	19	19	19	19
	8FG	2250	R	17	17	17	19	19	19
	8FG	2250	RX or RXK	19	19	19	19	19	19
	8FG	2500	R	17	17	17	19	19	19
	8FG	2500	RX or RXK	19	19	19	19	19	19
	8FG	2750	R	17	17	17	19	19	19
	8FG	2750	RX or RXK	17RXK	17RXK	17RXK	17RXK	19	19
	8FG	3000*	R	19	19	19	19	19	19
	8FG	3000*	RX or RXK	19	19	19	19	19	19

ENGINE	MANUFACTURER			DETROIT	DETROIT	DETROIT	DETROIT	DETROIT	DETROIT
	MODEL NUMBER			SERIES 60	SERIES 60	SERIES 60	SERIES 60	SERIES 60	SERIES 60
	DISPLACEMENT			778	778	778	778	778	778
	RATED HP			380	390	425	435	445	445
	GOVERNED SPEED			2100	2100	2100	2100	2100	2100
	PEAK TORQUE			1350	1350	1450	1450	1450	1550
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	19	19	19	19	19	19
	8FG	1500	RX or RXK	19	19	19	19	19	19
	8FG	1750	R	19	19	19	19	19	19
	8FG	1750	RX or RXK	19	19	19	19	19	19
	8FG	2000	R		19	19	19	19	19
	8FG	2000	RX or RXK		19	19	19	19	19
	8FG	2250	R			19	19	19	19
	8FG	2250	RX or RXK			19	19	19	19
	8FG	2500	R				19	19	19
	8FG	2500	RX or RXK					19	19
	8FG	2750	R						
	8FG	2750	RX or RXK						
	8FG	3000*	R	19	19	19	19	19	19
	8FG	3000*	RX or RXK	19	19	19	19	19	19

ENGINE	MANUFACTURER			DETROIT	DETROIT	DETROIT	DETROIT	DETROIT	DETROIT
	MODEL NUMBER			SERIES 60	SERIES 60	SERIES 60	SERIES 60	SERIES 60	SERIES 60
	DISPLACEMENT			778	778	858	858	858	858
	RATED HP			450	455	455	470	490	490
	GOVERNED SPEED			2100	2100	2100	2100	2100	2100
	PEAK TORQUE			1550	1550	1550	1650	1550	1650
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	19	19	19	19	17	19
	8FG	1500	RX or RXK	19	19	19	19	19	19
	8FG	1750	R	19	19	19	19	17	19
	8FG	1750	RX or RXK	19	19	19	19	19	19
	8FG	2000	R	19	19	19	19	17	19
	8FG	2000	RX or RXK	19	19	19	19	19	19
	8FG	2250	R	19	19	19	19	17	19
	8FG	2250	RX or RXK	19	19	19	19	19	19
	8FG	2500	R	19	19	19	19	17	19
	8FG	2500	RX or RXK	19	19	19	19	19	19
	8FG	2750	R		19	19	19	17	19
	8FG	2750	RX or RXK		19	19	19	19	19
	8FG	3000*	R	19	19	19	19	19	19
	8FG	3000*	RX or RXK	19	19	19	19	19	19

\*3000 GPM Industrial Rating per NFPA 1901

## 8FGR/8FKR SERIES PUMPS

ENGINE	MANUFACTURER			DETROIT	DETROIT	DETROIT	DETROIT	DETROIT	DETROIT
	MODEL NUMBER			SERIES 60	SERIES 60	DD13	DD13	DD13	DD13
	DISPLACEMENT			858	858	781	781	781	781
	RATED HP			515	515	370	380	380	410
	GOVERNED SPEED			2100	2100	2100	2100	2100	2100
	PEAK TORQUE			1550	1650	1250	1350	1450	1450
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	17	17	19	19	19	19
	8FG	1500	RX or RXK	19	19	19	19	19	19
	8FG	1750	R	17	17		19	19	19
	8FG	1750	RX or RXK	19	19		19	19	19
	8FG	2000	R	17	17				19
	8FG	2000	RX or RXK	19	19				19
	8FG	2250	R	17	17				
	8FG	2250	RX or RXK	19	19				
	8FG	2500	R	17	17				
	8FG	2500	RX or RXK	19	19				
	8FG	2750	R	17	17				
	8FG	2750	RX or RXK	19	19				
	8FG	3000*	R	19	19	19	19	19	19
	8FG	3000*	RX or RXK	19	19	19	19	19	19

ENGINE	MANUFACTURER			DETROIT	DETROIT	DETROIT	DETROIT	DETROIT	DETROIT
	MODEL NUMBER			DD13	DD13	DD13	DD13	DD13	DD13
	DISPLACEMENT			781	781	781	781	781	781
	RATED HP			410	410	435	450	450	470
	GOVERNED SPEED			2100	2100	2100	2100	2100	2100
	PEAK TORQUE			1550	1650	1550	1550	1650	1650
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	19	19	19	19	19	19
	8FG	1500	RX or RXK	19	19	19	19	19	19
	8FG	1750	R	19	19	19	19	19	19
	8FG	1750	RX or RXK	19	19	19	19	19	19
	8FG	2000	R	19	19	19	19	19	19
	8FG	2000	RX or RXK	19	19	19	19	19	19
	8FG	2250	R			19	19	19	19
	8FG	2250	RX or RXK			19	19	19	19
	8FG	2500	R			19	19	19	19
	8FG	2500	RX or RXK			19	19	19	19
	8FG	2750	R				17	17	17
	8FG	2750	RX or RXK				17RXK	17RXK	17RXK
	8FG	3000*	R	19	19	19	19	19	19
	8FG	3000*	RX or RXK	19	19	19	19	19	19

ENGINE	MANUFACTURER			MACK	MACK	MACK	MACK	MACK	MACK
	MODEL NUMBER			AC 330/350	AC 350	AC 355/380	AC 380/410	AC 427	AC 460P
	DISPLACEMENT			728	728	728	728	728	728
	RATED HP			350	350	380	410	427	460
	GOVERNED SPEED			1800	1800	1800	1800	1800	1850
	PEAK TORQUE			1460	1360	1560	1660	1560	1660
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	19	19	21	21	21	21
	8FG	1500	RX or RXK	19	19	19	19	19	19
	8FG	1750	R				21	21	21
	8FG	1750	RX or RXK				19	19	19
	8FG	2000	R				21	21	21
	8FG	2000	RX or RXK				19	19	19
	8FG	2250	R					21	21
	8FG	2250	RX or RXK					19	19
	8FG	2500	R					21	21
	8FG	2500	RX or RXK					19	19
	8FG	2750	R						21
	8FG	2750	RX or RXK						19
	8FG	3000*	R	19	19	19	19	19	19
	8FG	3000*	RX or RXK	19	19	19	19	19	19

\*3000 GPM Industrial Rating per NFPA 1901

## 8FGR/8FKR SERIES PUMPS

ENGINE	MANUFACTURER			MACK	MACK	MACK	MACK	MACK	MACK
	MODEL NUMBER			AI 350	AI 400	AI 427	AI 460	AMI 335	AMI 370
	DISPLACEMENT			728	728	728	728	728	728
	RATED HP			350	400	427	460	365	405
	GOVERNED SPEED			1950	1950	1950	1950	2100	2100
	PEAK TORQUE			1260	1360	1460	1560	1340	1480
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	19	19	19	19	19	19
	8FG	1500	RX or RXK	19	19	19	19	19	19
	8FG	1750	R		19	19	19		19
	8FG	1750	RX or RXK		19	19	19		19
	8FG	2000	R		19	19	19		19
	8FG	2000	RX or RXK		19	19	19		19
	8FG	2250	R		19	19	19		19
	8FG	2250	RX or RXK		19	19	19		19
	8FG	2500	R			19	19		
	8FG	2500	RX or RXK			19	19		
	8FG	2750	R				19		
	8FG	2750	RX or RXK				19		
	8FG	3000*	R	19	19	19	19		19
	8FG	3000*	RX or RXK	19	19	19	19		19

ENGINE	MANUFACTURER			MACK	MACK	MACK	MACK	MACK	MACK
	MODEL NUMBER			MP7 345C	MP7 355E	MP7 365C	MP7 365M	MP7 395C	MP7 405E
	DISPLACEMENT			659	659	659	659	659	659
	RATED HP			345	355	365	365	395	405
	GOVERNED SPEED			1950	1800	1950	2100	1950	1800
	PEAK TORQUE			1360	1360	1460	1340	1560	1460
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	21	21	21	21	21	21
	8FG	1500	RX or RXK	21	21	21	21	21	21
	8FG	1750	R					21	21
	8FG	1750	RX or RXK					21	21
	8FG	2000	R					21	21
	8FG	2000	RX or RXK					21	21
	8FG	2250	R						21
	8FG	2250	RX or RXK						21
	8FG	2500	R						
	8FG	2500	RX or RXK						
	8FG	2750	R						
	8FG	2750	RX or RXK						
	8FG	3000*	R		19	19	19	19	19
	8FG	3000*	RX or RXK		19	19	19	19	19

ENGINE	MANUFACTURER			MACK	MACK	MACK	MACK	MACK	MACK
	MODEL NUMBER			MP7 405M	MP8 415C	MP8 425E	MP8 425M	MP8 445C	MP8 455E
	DISPLACEMENT			659	780	780	780	780	780
	RATED HP			405	415	425	425	445	455
	GOVERNED SPEED			2100	1950	1800	2100	1950	1800
	PEAK TORQUE			1480	1660	1560	1540	1660	1660
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	21	21	21	21	21	21
	8FG	1500	RX or RXK	21	21	21	21	21	21
	8FG	1750	R	21	21	21	21	21	21
	8FG	1750	RX or RXK	21	21	21	21	21	21
	8FG	2000	R	21	21	21	21	21	21
	8FG	2000	RX or RXK	21	21	21	21	21	21
	8FG	2250	R	21	21	21	21	21	21
	8FG	2250	RX or RXK	21	21	21	21	21	21
	8FG	2500	R					21	21
	8FG	2500	RX or RXK					21	21
	8FG	2750	R						21
	8FG	2750	RX or RXK						21
	8FG	3000*	R	19	19	19	19	19	19
	8FG	3000*	RX or RXK	19	19	19	19	19	19

\*3000 GPM Industrial Rating per NFPA 1901

## 8FGR/8FKR SERIES PUMPS

ENGINE	MANUFACTURER			MACK	MACK	MACK	MACK	MERCEDES	MERCEDES
	MODEL NUMBER			MP8 455M	MP8 485C	MP8 485E	MP8 485M	MBE 4000	MBE 4000
	DISPLACEMENT			780	780	780	780	781	781
	RATED HP			455	485	485	485	350	370
	GOVERNED SPEED			2100	1950	1800	2100	2000	2000
	PEAK TORQUE			1650	1660	1660	1700	1350	1450
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	21	21	21	21	19	19
	8FG	1500	RX or RXK	21	21	21	21	19	19
	8FG	1750	R	21	21	21	21		
	8FG	1750	RX or RXK	21	21	21	21		
	8FG	2000	R	21	21	21	21		
	8FG	2000	RX or RXK	21	21	21	21		
	8FG	2250	R	21	21	21	21		
	8FG	2250	RX or RXK	21	21	21	21		
	8FG	2500	R	21	21	21	21		
	8FG	2500	RX or RXK	21	21	21	21		
	8FG	2750	R	21	21	21	21		
	8FG	2750	RX or RXK	21	21	21	21		
	8FG	3000*	R	19	19	19	19	19	19
	8FG	3000*	RX or RXK	19	19	19	19	19	19

ENGINE	MANUFACTURER			MERCEDES	MERCEDES	MERCEDES	MERCEDES	MERCEDES	NAVISTAR
	MODEL NUMBER			MBE 4000	MBE 4000	MBE 4000	MBE 4000	MBE 4000	DT570
	DISPLACEMENT			781	781	781	781	781	570
	RATED HP			370	410	410	435	450	340
	GOVERNED SPEED			2000	2000	2000	2000	2000	2100
	PEAK TORQUE			1350	1450	1550	1550	1550	1150
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	19	19	19	19	19	19
	8FG	1500	RX or RXK	19	19	19	19	19	19
	8FG	1750	R		19	19	19	19	
	8FG	1750	RX or RXK		19	19	19	19	
	8FG	2000	R		19	19	19	19	
	8FG	2000	RX or RXK		19	19	19	19	
	8FG	2250	R		19	19	19	19	
	8FG	2250	RX or RXK		19	19	19	19	
	8FG	2500	R			19	19	19	
	8FG	2500	RX or RXK			19	19	19	
	8FG	2750	R				19	19	
	8FG	2750	RX or RXK					19	
	8FG	3000*	R	19	19	19	19	19	19
	8FG	3000*	RX or RXK	19	19	19	19	19	

ENGINE	MANUFACTURER			NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR
	MODEL NUMBER			MaxxForce 10	MaxxForce 11	MaxxForce 11	MaxxForce 13	MaxxForce 13	MaxxForce 13
	DISPLACEMENT			570	641	641	758	758	758
	RATED HP			350	370	390	410	430	475
	GOVERNED SPEED			2200	2100	2100	2100	2100	2100
	PEAK TORQUE			1150	1350	1450	1450	1550	1700
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	19	19	19	19	19	19
	8FG	1500	RX or RXK	19	19	19	19	19	19
	8FG	1750	R			19	19	19	19
	8FG	1750	RX or RXK			19	19	19	19
	8FG	2000	R				19	19	19
	8FG	2000	RX or RXK				19	19	19
	8FG	2250	R				19	19	19
	8FG	2250	RX or RXK				19	19	19
	8FG	2500	R						19
	8FG	2500	RX or RXK						19
	8FG	2750	R						
	8FG	2750	RX or RXK						
	8FG	3000*	R	17	19	19	19	19	19
	8FG	3000*	RX or RXK	17RXK	19	19	19	19	19

\*3000 GPM Industrial Rating per NFPA 1901

## 8FGR/8FKR SERIES PUMPS

ENGINE	MANUFACTURER			NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	
	MODEL NUMBER			MaxxForce 15	MaxxForce 15	MaxxForce 15	MaxxForce 15	MaxxForce 15	
	DISPLACEMENT			928	928	928	928	928	
	RATED HP			450	450	500	500	550	
	GOVERNED SPEED			2100	2100	2100	2100	2100	
	PEAK TORQUE			1550	1750	1650	1850	1850	
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	1500	R	19	19	19	19	19	
	8FG	1500	RX or RXK	19	19	19	19	19	
	8FG	1750	R	19	19	19	19	19	
	8FG	1750	RX or RXK	19	19	19	19	19	
	8FG	2000	R	19	19	19	19	19	
	8FG	2000	RX or RXK	19	19	19	19	19	
	8FG	2250	R	19	19	19	19	19	
	8FG	2250	RX or RXK	19	19	19	19	19	
	8FG	2500	R	19	19	19	19	19	
	8FG	2500	RX or RXK	19	19	19	19	19	
	8FG	2750	R	19	19	19	19	19	
	8FG	2750	RX or RXK	19	19	19	19	19	
	8FG	3000*	R	19	19	19	19	19	
	8FG	3000*	RX or RXK	19	19	19	19	19	

\*3000 GPM Industrial Rating per NFPA 1901

## 8FGF/8FKF SERIES PUMPS

ENGINE	MANUFACTURER			CATERPILLAR	CATERPILLAR	CATERPILLAR	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER			C9	C13	C13	ISL 450	ISM 430	ISM 435
	DISPLACEMENT			567	763	763	543	661	661
	RATED HP			425	485	525	450	430	435
	GOVERNED SPEED			2100	2100	2100	2200	2100	2100
	PEAK TORQUE			1250	1650	1750	1250	1450	1550
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	2500	L		19	19			
	8FG	2500	X or XK		19	19			
	8FG	2750	L			19			
	8FG	2750	X or XK			19			
	8FG	3000*	L	17	19	19	17	19	19
	8FG	3000*	X or XK	17XK	19	19	17XK	19	19

ENGINE	MANUFACTURER			CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER			ISM 450	ISM 450	ISM 475	ISM 500EV	ISM 500	ISX 525
	DISPLACEMENT			661	661	661	661	661	912
	RATED HP			450	450	475	500	500	525
	GOVERNED SPEED			2100	2100	2100	2100	2100	2000
	PEAK TORQUE			1450	1550	1550	1450	1550	1650
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	2500	L				19	19	21
	8FG	2500	X or XK				19	19	21
	8FG	2750	L					19	21
	8FG	2750	X or XK					19	21
	8FG	3000*	L	19	19	19	19	19	21
	8FG	3000*	X or XK	19	19	19	19	19	21

ENGINE	MANUFACTURER			CUMMINS	DETROIT	DETROIT	DETROIT	DETROIT	DETROIT
	MODEL NUMBER			ISX 650	SERIES 60	SERIES 60	SERIES 60	SERIES 60	SERIES 60
	DISPLACEMENT			912	778	778	778	778	778
	RATED HP			650	425	435	445	445	450
	GOVERNED SPEED			2100	2100	2100	2100	2100	2100
	PEAK TORQUE			1950	1450	1450	1450	1550	1550
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	2500	L	21					
	8FG	2500	X or XK	21					
	8FG	2750	L	21					
	8FG	2750	X or XK	21					
	8FG	3000*	L	21	19	19	19	19	19
	8FG	3000*	X or XK	21	19	19	19	19	19

ENGINE	MANUFACTURER			DETROIT	DETROIT	DETROIT	DETROIT	DETROIT	DETROIT
	MODEL NUMBER			SERIES 60	SERIES 60	SERIES 60	SERIES 60	SERIES 60	SERIES 60
	DISPLACEMENT			778	858	858	858	858	858
	RATED HP			455	455	470	490	490	515
	GOVERNED SPEED			2100	2100	2100	2100	2100	2100
	PEAK TORQUE			1550	1550	1650	1550	1650	1550
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	2500	L					21	21
	8FG	2500	X or XK					21	21
	8FG	2750	L						21
	8FG	2750	X or XK						21
	8FG	3000*	L	19	19	19	19	19	19
	8FG	3000*	X or XK	19	19	19	19	19	19

ENGINE	MANUFACTURER			DETROIT	DETROIT	DETROIT	DETROIT	DETROIT	MACK
	MODEL NUMBER			SERIES 60	DD13	DD13	DD13	DD13	MP7 405E
	DISPLACEMENT			858	781	781	781	781	659
	RATED HP			515	435	450	450	470	405
	GOVERNED SPEED			2100	2100	2100	2100	2100	1800
	PEAK TORQUE			1650	1550	1550	1650	1650	1460
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	2500	L	21					
	8FG	2500	X or XK	21					
	8FG	2750	L	21					
	8FG	2750	X or XK	21					
	8FG	3000*	L	19	19	19	19	19	19
	8FG	3000*	X or XK	19	19	19	19	19	19

\*3000 GPM Industrial Rating per NFPA 1901

## 8FGF/8FKF SERIES PUMPS

ENGINE	MANUFACTURER			MACK	MACK	MACK	MACK	MACK	MACK
	MODEL NUMBER			MP7 405M	MP8 415C	MP8 425E	MP8 425M	MP8 445C	MP8 455E
	DISPLACEMENT			659	780	780	780	780	780
	RATED HP			405	415	425	425	445	455
	GOVERNED SPEED			2100	1950	1800	2100	1950	1800
	PEAK TORQUE			1480	1660	1560	1540	1660	1660
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	2500	L						
	8FG	2500	X or XK						
	8FG	2750	L						
	8FG	2750	X or XK						
	8FG	3000*	L	19	19	19	19	19	19
	8FG	3000*	X or XK	19	19	19	19	19	19

ENGINE	MANUFACTURER			MACK	MACK	MACK	MACK	MERCEDES	MERCEDES
	MODEL NUMBER			MP8 455M	MP8 485C	MP8 485E	MP8 485M	MBE 4000	MBE 4000
	DISPLACEMENT			780	780	780	780	781	781
	RATED HP			455	485	485	485	410	410
	GOVERNED SPEED			2100	1950	1800	2100	2000	2000
	PEAK TORQUE			1650	1660	1660	1700	1450	1550
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	2500	L		23	23	21		
	8FG	2500	X or XK		23	23	21		
	8FG	2750	L						
	8FG	2750	X or XK						
	8FG	3000*	L	19	19	19	19	19	19
	8FG	3000*	X or XK	19	19	19	19	19	19

ENGINE	MANUFACTURER			MERCEDES	MERCEDES	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR
	MODEL NUMBER			MBE 4000	MBE 4000	MaxxForce 13	MaxxForce 13	MaxxForce 13	MaxxForce 15
	DISPLACEMENT			781	781	758	758	758	928
	RATED HP			435	450	410	430	475	500
	GOVERNED SPEED			2000	2000	2100	2100	2100	2100
	PEAK TORQUE			1550	1550	1450	1550	1700	1650
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	2500	L						21
	8FG	2500	X or XK						21
	8FG	2750	L						21
	8FG	2750	X or XK						21
	8FG	3000*	L	19	19	19	19	19	
	8FG	3000*	X or XK	19	19	19	19	19	

ENGINE	MANUFACTURER			NAVISTAR	NAVISTAR				
	MODEL NUMBER			MaxxForce 15	MaxxForce 15				
	DISPLACEMENT			928	928				
	RATED HP			500	550				
	GOVERNED SPEED			2100	2100				
	PEAK TORQUE			1850	1850				
PUMP MODEL, RATED FLOW (GPM) AND GEARBOX	8FG	2500	L	21	21				
	8FG	2500	X or XK	21	21				
	8FG	2750	L	21	21				
	8FG	2750	X or XK	21	21				
	8FG	3000*	L						
	8FG	3000*	X or XK						

\*3000 GPM Industrial Rating per NFPA 1901

### CSD/HFM SERIES PUMPS

ENGINE	MANUFACTURER		CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR
	MODEL NUMBER		C7	C7	C7	C7	C7
	DISPLACEMENT		441	441	441	441	441
	RATED HP		275	275	300	300	330
	GOVERNED SPEED		2400	2400	2400	2400	2400
	PEAK TORQUE		800	860	800	860	860
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	21	23	23	23	23
	CSD/HFM100	1000	21	23	23	23	23
	CSD/HFM125	1250	21	23	23	23	23
	CSD/HFM150	1500	21	21	21	21	21

ENGINE	MANUFACTURER		CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR
	MODEL NUMBER		C9	C9	C9	C9	C11
	DISPLACEMENT		537	537	537	537	677
	RATED HP		335	350	370	400	335
	GOVERNED SPEED		2100	2100	2100	2100	2100
	PEAK TORQUE		1050	1100	1100	1100	1250
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23	23
	CSD/HFM100	1000	23	23	23	23	23
	CSD/HFM125	1250	23	23	23	23	23
	CSD/HFM150	1500	23	23	23	23	23

ENGINE	MANUFACTURER		CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR	CATERPILLAR
	MODEL NUMBER		C11	C11	C11	C11	C13
	DISPLACEMENT		677	677	677	677	763
	RATED HP		350	350	370	370	410
	GOVERNED SPEED		2100	2100	2100	2100	2100
	PEAK TORQUE		1350	1450	1350	1450	1550
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23	23
	CSD/HFM100	1000	23	23	23	23	23
	CSD/HFM125	1250	23	23	23	23	23
	CSD/HFM150	1500	23	23	23	23	23

ENGINE	MANUFACTURER		CATERPILLAR	CATERPILLAR	CATERPILLAR	CUMMINS	CUMMINS
	MODEL NUMBER		C13	C13	C13	ISB 275	ISB 280
	DISPLACEMENT		763	763	763	359	409
	RATED HP		430	470	525	275	280
	GOVERNED SPEED		2100	2100	2100	2600	2800
	PEAK TORQUE		1650	1650	1650	660	660
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	21	23
	CSD/HFM100	1000	23	23	23	21	23
	CSD/HFM125	1250	23	23	23	21	21
	CSD/HFM150	1500	23	23	23	18	18

ENGINE	MANUFACTURER		CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER		ISB 300	ISB 300	ISB 325	ISB 340	ISB 360
	DISPLACEMENT		359	409	409	409	409
	RATED HP		300	300	325	340	360
	GOVERNED SPEED		2600	2800	2800	2800	2800
	PEAK TORQUE		660	660	750	660	800
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	21	23	23	23	23
	CSD/HFM100	1000	21	23	23	23	23
	CSD/HFM125	1250	21	21	21	21	23
	CSD/HFM150	1500	18	18	21	18	21

ENGINE	MANUFACTURER		CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER		ISC 260	ISC 285	ISC 300	ISC 315	ISC 330
	DISPLACEMENT		506	506	506	506	506
	RATED HP		260	285	300	315	330
	GOVERNED SPEED		2200	2200	2200	2200	2200
	PEAK TORQUE		800	800	860	950	950
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23	23
	CSD/HFM100	1000	23	23	23	23	23
	CSD/HFM125	1250	23	23	23	23	23
	CSD/HFM150	1500		21	21	23	23

### CSD/HFM SERIES PUMPS

ENGINE	MANUFACTURER		CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER		ISC 350	ISC 360	ISC 380	ISL 330	ISL 345
	DISPLACEMENT		506	506	506	537	543
	RATED HP		350	360	380	330	345
	GOVERNED SPEED		2200	2200	2200	2200	2200
	PEAK TORQUE		1000	1050	1050	1150	1150
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23	23
	CSD/HFM100	1000	23	23	23	23	23
	CSD/HFM125	1250	23	23	23	23	23
	CSD/HFM150	1500	23	23	23	23	23

ENGINE	MANUFACTURER		CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER		ISL 350	ISL 350	ISL 370	ISL 380	ISL 400
	DISPLACEMENT		537	537	537	543	537
	RATED HP		350	350	370	380	400
	GOVERNED SPEED		2200	2200	2200	2200	2200
	PEAK TORQUE		1050	1250	1200	1300	1200
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23	23
	CSD/HFM100	1000	23	23	23	23	23
	CSD/HFM125	1250	23	23	23	23	23
	CSD/HFM150	1500	23	23	23	23	23

ENGINE	MANUFACTURER		CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER		ISL 400	ISL 450	ISM 340EV	ISM 365EV	ISM 380EV
	DISPLACEMENT		543	543	661	661	661
	RATED HP		400	450	340	365	380
	GOVERNED SPEED		2200	2200	2100	2100	2100
	PEAK TORQUE		1250	1250	1350	1350	1200
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23	23
	CSD/HFM100	1000	23	23	23	23	23
	CSD/HFM125	1250	23	23	23	23	23
	CSD/HFM150	1500	23	23	23	23	23

ENGINE	MANUFACTURER		CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER		ISM 385EV	ISM 385	ISM 400EV	ISM 400	ISM 430
	DISPLACEMENT		661	661	661	661	661
	RATED HP		385	385	400	400	430
	GOVERNED SPEED		2100	2100	2100	2100	2100
	PEAK TORQUE		1350	1450	1450	1450	1450
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23	23
	CSD/HFM100	1000	23	23	23	23	23
	CSD/HFM125	1250	23	23	23	23	23
	CSD/HFM150	1500	23	23	23	23	23

ENGINE	MANUFACTURER		CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	MODEL NUMBER		ISM 435	ISM 450	ISM 450	ISM 475	ISM 500EV
	DISPLACEMENT		661	661	661	661	661
	RATED HP		435	450	450	475	500
	GOVERNED SPEED		2100	2100	2100	2100	2100
	PEAK TORQUE		1450	1450	1550	1550	1450
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23	23
	CSD/HFM100	1000	23	23	23	23	23
	CSD/HFM125	1250	23	23	23	23	23
	CSD/HFM150	1500	23	23	23	23	23

ENGINE	MANUFACTURER		CUMMINS	CUMMINS	CUMMINS	CUMMINS	MACK
	MODEL NUMBER		ISM 500	ISX 450	ISX 525	ISX 650	AMI 300
	DISPLACEMENT		661	912	912	912	728
	RATED HP		500	450	525	650	325
	GOVERNED SPEED		2100	2100	2000	2100	2100
	PEAK TORQUE		1550	1450	1650	1950	1200
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23	23
	CSD/HFM100	1000	23	23	23	23	23
	CSD/HFM125	1250	23	23	23	23	23
	CSD/HFM150	1500	23	23	23	23	23

### CSD/HFM SERIES PUMPS

ENGINE	MANUFACTURER	MACK	MACK	MACK	MACK	MACK
	MODEL NUMBER	AMI 335	AMI 370	MP7 325M	MP7 365M	MP7 405M
	DISPLACEMENT	728	728	659	659	659
	RATED HP	365	405	325	365	405
	GOVERNED SPEED	2100	2100	2100	2100	2100
	PEAK TORQUE	1340	1480	1200	1340	1480
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23
	CSD/HFM100	1000	23	23	23	23
	CSD/HFM125	1250	23	23	23	23
	CSD/HFM150	1500	23	23	23	23

ENGINE	MANUFACTURER	MACK	MACK	MERCEDES	MERCEDES	MERCEDES
	MODEL NUMBER	MP8 425M	MP8 455M	MBE 4000	MBE 4000	MBE 4000
	DISPLACEMENT	780	780	781	781	781
	RATED HP	425	455	350	370	370
	GOVERNED SPEED	2100	2100	2000	2000	2000
	PEAK TORQUE	1540	1650	1350	1450	1350
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23
	CSD/HFM100	1000	23	23	23	23
	CSD/HFM125	1250	23	23	23	23
	CSD/HFM150	1500	23	23	23	23

ENGINE	MANUFACTURER	MERCEDES	MERCEDES	MERCEDES	MERCEDES	MERCEDES
	MODEL NUMBER	MBE 4000	MBE 4000	MBE 4000	MBE 4000	MBE 904
	DISPLACEMENT	781	781	781	781	259
	RATED HP	410	410	435	450	170
	GOVERNED SPEED	2000	2000	2000	2000	2500
	PEAK TORQUE	1450	1550	1550	1550	420
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	21
	CSD/HFM100	1000	23	23	23	
	CSD/HFM125	1250	23	23	23	
	CSD/HFM150	1500	23	23	23	

ENGINE	MANUFACTURER	MERCEDES	MERCEDES	MERCEDES	MERCEDES	MERCEDES
	MODEL NUMBER	MBE 906	MBE 906	MBE 906	MBE 906	MBE 906
	DISPLACEMENT	388	388	388	388	388
	RATED HP	190	210	210	230	250
	GOVERNED SPEED	2500	2500	2500	2500	2500
	PEAK TORQUE	520	520	605	660	660
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	21	21	21	21
	CSD/HFM100	1000	21	21	21	21
	CSD/HFM125	1250			21	21
	CSD/HFM150	1500				

ENGINE	MANUFACTURER	MERCEDES	MERCEDES	MERCEDES	MERCEDES	MERCEDES
	MODEL NUMBER	MBE 906	MBE 924	MBE 926	MBE 926	MBE 926
	DISPLACEMENT	388	296	439	439	439
	RATED HP	260	190	250	280	300
	GOVERNED SPEED	2500	2500	2500	2500	2500
	PEAK TORQUE	700	520	800	800	1000
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	21	21	21	23
	CSD/HFM100	1000	21		21	23
	CSD/HFM125	1250	21		21	21
	CSD/HFM150	1500			18	18

ENGINE	MANUFACTURER	MERCEDES	DETROIT	DETROIT	DETROIT	DETROIT
	MODEL NUMBER	MBE 926	SERIES 60	SERIES 60	SERIES 60	SERIES 60
	DISPLACEMENT	439	778	778	778	778
	RATED HP	330	380	390	425	435
	GOVERNED SPEED	2500	2100	2100	2100	2100
	PEAK TORQUE	860	1350	1350	1450	1450
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23
	CSD/HFM100	1000	23	23	23	23
	CSD/HFM125	1250	23	23	23	23
	CSD/HFM150	1500	23	23	23	23

### CSD/HFM SERIES PUMPS

<b>ENGINE</b>	<b>MANUFACTURER</b>	<b>DETROIT</b>	<b>DETROIT</b>	<b>DETROIT</b>	<b>DETROIT</b>	<b>DETROIT</b>
	MODEL NUMBER	SERIES 60	SERIES 60	SERIES 60	SERIES 60	SERIES 60
	DISPLACEMENT	778	778	778	778	858
	RATED HP	445	445	450	455	455
	GOVERNED SPEED	2100	2100	2100	2100	2100
	PEAK TORQUE	1450	1550	1550	1550	1550
<b>PUMP MODEL, RATED FLOW (GPM)</b>	CSD/HFM75 750	23	23	23	23	23
	CSD/HFM100 1000	23	23	23	23	23
	CSD/HFM125 1250	23	23	23	23	23
	CSD/HFM150 1500	23	23	23	23	23

<b>ENGINE</b>	<b>MANUFACTURER</b>	<b>DETROIT</b>	<b>DETROIT</b>	<b>DETROIT</b>	<b>DETROIT</b>	<b>DETROIT</b>
	MODEL NUMBER	SERIES 60	SERIES 60	SERIES 60	SERIES 60	SERIES 60
	DISPLACEMENT	858	858	858	858	858
	RATED HP	490	515	470	490	515
	GOVERNED SPEED	2100	2100	2100	2100	2100
	PEAK TORQUE	1550	1550	1650	1650	1650
<b>PUMP MODEL, RATED FLOW (GPM)</b>	CSD/HFM75 750	23	23	23	23	23
	CSD/HFM100 1000	23	23	23	23	23
	CSD/HFM125 1250	23	23	23	23	23
	CSD/HFM150 1500	23	23	23	23	23

<b>ENGINE</b>	<b>MANUFACTURER</b>	<b>DETROIT</b>	<b>DETROIT</b>	<b>DETROIT</b>	<b>DETROIT</b>	<b>DETROIT</b>
	MODEL NUMBER	DD13	DD13	DD13	DD13	DD13
	DISPLACEMENT	781	781	781	781	781
	RATED HP	350	370	380	380	410
	GOVERNED SPEED	2100	2100	2100	2100	2100
	PEAK TORQUE	1350	1250	1350	1450	1450
<b>PUMP MODEL, RATED FLOW (GPM)</b>	CSD/HFM75 750	23	23	23	23	23
	CSD/HFM100 1000	23	23	23	23	23
	CSD/HFM125 1250	23	23	23	23	23
	CSD/HFM150 1500	23	23	23	23	23

<b>ENGINE</b>	<b>MANUFACTURER</b>	<b>DETROIT</b>	<b>DETROIT</b>	<b>DETROIT</b>	<b>DETROIT</b>	<b>DETROIT</b>
	MODEL NUMBER	DD13	DD13	DD13	DD13	DD13
	DISPLACEMENT	781	781	781	781	781
	RATED HP	410	410	435	450	450
	GOVERNED SPEED	2100	2100	2100	2100	2100
	PEAK TORQUE	1550	1650	1550	1550	1650
<b>PUMP MODEL, RATED FLOW (GPM)</b>	CSD/HFM75 750	23	23	23	23	23
	CSD/HFM100 1000	23	23	23	23	23
	CSD/HFM125 1250	23	23	23	23	23
	CSD/HFM150 1500	23	23	23	23	23

<b>ENGINE</b>	<b>MANUFACTURER</b>	<b>DETROIT</b>	<b>NAVISTAR</b>	<b>NAVISTAR</b>	<b>NAVISTAR</b>	<b>NAVISTAR</b>
	MODEL NUMBER	DD13	DT466	DT466	DT466	DT466
	DISPLACEMENT	781	465	465	465	465
	RATED HP	470	210	220	225	225
	GOVERNED SPEED	2100	2600	2600	2600	2600
	PEAK TORQUE	1650	520	540	560	620
<b>PUMP MODEL, RATED FLOW (GPM)</b>	CSD/HFM75 750	23	21	21	21	21
	CSD/HFM100 1000	23	18	18	18	21
	CSD/HFM125 1250	23				21
	CSD/HFM150 1500	23				

<b>ENGINE</b>	<b>MANUFACTURER</b>	<b>NAVISTAR</b>	<b>NAVISTAR</b>	<b>NAVISTAR</b>	<b>NAVISTAR</b>	<b>NAVISTAR</b>
	MODEL NUMBER	DT466	DT466	DT466	DT466	DT466
	DISPLACEMENT	465	465	465	465	465
	RATED HP	245	245	255	260	285
	GOVERNED SPEED	2600	2600	2600	2400	2400
	PEAK TORQUE	620	660	660	800	800
<b>PUMP MODEL, RATED FLOW (GPM)</b>	CSD/HFM75 750	21	21	21	23	23
	CSD/HFM100 1000	21	21	21	23	23
	CSD/HFM125 1250	21	21	21	23	23
	CSD/HFM150 1500					21

### CSD/HFM SERIES PUMPS

ENGINE	MANUFACTURER		NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	
	MODEL NUMBER		DT466	DT570	DT570	DT570	DT570	DT570
	DISPLACEMENT		465	570	570	570	570	570
	RATED HP		300	285	295	310	310	310
	GOVERNED SPEED		2400	2200	2200	2200	2200	2200
	PEAK TORQUE		860	800	950	950	1050	1050
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23	23	
	CSD/HFM100	1000	23	23	23	23	23	
	CSD/HFM125	1250	23	23	23	23	23	
	CSD/HFM150	1500	21	21	23	23	23	

ENGINE	MANUFACTURER		NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	
	MODEL NUMBER		DT570	DT570	DT570	VT365	VT365	VT365
	DISPLACEMENT		570	570	570	364	364	364
	RATED HP		330	330	340	175	200	200
	GOVERNED SPEED		2200	2100	2100	2800	2800	2800
	PEAK TORQUE		950	1150	1150	460	520	520
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	18	21	
	CSD/HFM100	1000	23	23	23		18	
	CSD/HFM125	1250	23	23	23			
	CSD/HFM150	1500	23	23	23			

ENGINE	MANUFACTURER		NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	
	MODEL NUMBER		VT365	VT365	VT365	MaxxF9	MaxxF9	MaxxF9
	DISPLACEMENT		364	364	365	570	570	570
	RATED HP		215	230	230	300	315	315
	GOVERNED SPEED		2800	2800	2800	2200	2200	2200
	PEAK TORQUE		240	540	620	860	950	950
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	21	21	21	23	23	
	CSD/HFM100	1000	18	18	21	23	23	
	CSD/HFM125	1250		18	18	23	23	
	CSD/HFM150	1500				23	23	

ENGINE	MANUFACTURER		NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	
	MODEL NUMBER		MaxxF9	MaxxF10	MaxxF10	MaxxF10	MaxxF10	MaxxF11
	DISPLACEMENT		570	570	570	570	570	641
	RATED HP		330	310	330	350	330	330
	GOVERNED SPEED		2200	2200	2200	2200	2100	2100
	PEAK TORQUE		950	1050	1150	1150	1250	1250
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23	23	
	CSD/HFM100	1000	23	23	23	23	23	
	CSD/HFM125	1250	23	23	23	23	23	
	CSD/HFM150	1500	23	23	23	23	23	

ENGINE	MANUFACTURER		NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	
	MODEL NUMBER		MaxxF11	MaxxF11	MaxxF13	MaxxF13	MaxxF13	MaxxF13
	DISPLACEMENT		641	641	758	758	758	758
	RATED HP		370	390	410	430	475	475
	GOVERNED SPEED		2100	2100	2100	2100	2100	2100
	PEAK TORQUE		1350	1450	1450	1550	1700	1700
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23	23	
	CSD/HFM100	1000	23	23	23	23	23	
	CSD/HFM125	1250	23	23	23	23	23	
	CSD/HFM150	1500	23	23	23	23	23	

ENGINE	MANUFACTURER		NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	NAVISTAR	
	MODEL NUMBER		MaxxF15	MaxxF15	MaxxF15	MaxxF15	MaxxF15	MaxxF15
	DISPLACEMENT		928	928	928	928	928	928
	RATED HP		450	450	500	500	550	550
	GOVERNED SPEED		2100	2100	2100	2100	2100	2100
	PEAK TORQUE		1550	1750	1650	1850	1850	1850
PUMP MODEL, RATED FLOW (GPM)	CSD/HFM75	750	23	23	23	23	23	
	CSD/HFM100	1000	23	23	23	23	23	
	CSD/HFM125	1250	23	23	23	23	23	
	CSD/HFM150	1500	23	23	23	23	23	