LS6245 - 2006 RATING CHART

QTWO SERIES PUMP WITH "LG & SG" GEARBOX

RATED FROM 65 Liter/sec @1.03 MPa TO 125 Liter/sec @1.03 Mpa TWO STAGE PUMP- 267 mm (10.5 inch) DIAMETER IMPELLER

OPERATING CONDITIONS C1 & C2:

THE PUMP WILL PERFORM THE RATING WITH STANDARD TEST CONDITIONS OF SEA LEVEL ALTITUDE, 758.0 mm-Hg [29.84 in-Hg] ATMOSPHERIC PRESSURE, 20 °C [68 °F] WATER TEMPERATURE, 3 m [10 ft] LIFT, 6 m [20 ft] OF 150 mm [6 inch] SUCTION HOSE & STRAINER¹.

OPERATING CONDITION C3:

THE PUMP WILL PERFORM THE RATING WITH STANDARD TEST CONDITIONS OF SEA LEVEL ALTITUDE, 758.0 mm-Hg [29.84 in-Hg] ATMOSPHERIC PRESSURE, 20 °C [68 °F] WATER TEMPERATURE, 7 m [23 ft] LIFT, 9 m [30 ft] OF 150 mm [6 inch] SUCTION HOSE & STRAINER¹.

***V & *P PUMP OPERATING CONDITION:**

*V PUMP OPERATED WITH TRANSFER VALVE IN VOLUME POSITION (PARALLEL) PUMP OPERATION.
*P PUMP OPERATED WITH TRANSFER VALVE IN PRESSURE POSITION (SERIES) PUMP OPERATION.

Page 1 of 2

	_		_	•												aye	1 01 2
<u> </u>	NG ON	<u>≻</u> ()	RE	S ED	PUMP INPUT DRIVE SHAFT (Rev/Min) ²										. \subset	SNE	
RATED CAPACITY (LITER/SEC)	OPERATING CONDITION	CAPACITY (LITER/SEC)	PRESSURE (MPa)	POWER REQUIRED (kW)	RATIO 2.28	TORQUE (N-m)	2.05	TORQUE (N-m)	1.86	TORQUE (N-m)	1.71	TORQUE (N-m)	1.58	TORQUE (N-m)	HALE PRODUCTS INC	A Unit of IDEX Corporation OCALA, FL 34475 USA	SCALE: NONE
	DUMP MODEL			CB10/65											구 고	SIZE	
65	PUMP MODEL				QTWO	55LS-23	QTWO65LS-21		QTWO65LS-19		QTWO65LS-17		QTWO65LS-15		PR	A D Y	S
	C1*V	65	1.03	122	1420	817	1570	739	1730	671	1890	614	2050	566	Щ	init (CAL	DATE: 29JUL2016
	C2*P	45	1.34	109	1280	812	1430	727	1570	662	1710	608	1850	562	Ι	:	DAT
	C3*V	32.5	1.03	92	1430	617	1590	555	1750	505	1910	462	2070	427	1		
		PUMP	MODI	FI		CB10/80											
				•	QTWO		QTWO80LS-21		QTWO80LS-19		QTWO80LS-17		QTWO80LS-15				DRAWN DLM CHECKEDMAL
80	C1*V	80	1.03	139	1440	925	1600	832	1760	757	1920	694	2080	640		⊿Ш √	
	C2*P	56	1.34	142	1370	988	1520	890	1680	805	1830	739	1980	683			ED TO
	C3*V	40	1.03	100	1440	663	1600	596	1760	542	1910	500	2070	461	. ((1	C © OR USE R MACH
95		PUMP	MODI	EL	CB10/95								_ //	Ì	COPYRIGHT © NOTTO BE REPRODUCED ON USED TO MAKE OTHER DRAWINGS OR MACHINERY		
						95LS-23	QTWO95LS-21		QTWO95LS-19		QTWO95LS-17		QTWO95LS-15				OPYI R DRAV
	C1*V	95	1.03	162	1460	1058	1630	948	1790	863	1950	792	2110	732	1		OTTO BE
	C2*V	67	1.34	163	1560	1000	1740	896	1910	816	2090	746	2260	690	<u>. </u>		MAK
	C3*V	47.5	1.03	116	1450	761	1610	686	1770	624	1930	572	2090	528	APVD	MAL	
110	PUMP MODEL				CB10/110 QTW0110LS-23 QTW0110LS-21 QTW0110LS-19 QTW0110LS-17 QTW0110LS-15									₩	\rightarrow	\perp	
	C4*\/ 440 4 00 400			QTWO110LS-23								QTWO110LS-15		世	29Jul2016 17May2021		
	C1*V	110	1.03	180	1490	1157	1650	1044	1820	947	1980		2150	801	DATE	9Juľ.	
	C2*V	77	1.34	174	1580	1055	1760	947	1940	859	2110	790	2290	728			++
	C3*V	55	1.03	123	1460	805	1620	725	1780	660	1940	606	2100	559	ВУ	DLM	++
125	PUMP MODEL				CB10/125 QTW0125LS-23 QTW0125LS-21 QTW0125LS-19 QTW0125LS-17 QTW0125LS-1							251 8-15	4				
	C1*V 125		1.03	207	1540	1285	1710	1158	1880	1053	2050	966	2220	892	1		
	C2*V	88	1.34	194	1610	1150	1790	1034	1970	940	2150	861	2330	795		E S	
	C3*V	62.5		131	1480	847	1650	760	1810	692	1980	633	2140	586	ROM	EAS TO	
	OJ V	02.3	1.03	131	1400					032	1300	000	2140	500	CHANGED FROM	REL	
			MODI	E1	MIDDLE PRESSURE ³ CB30/13										HANC	INITIAL RELEASE GB CHANGED TO LS	
13	\vdash		3.00	157	1630	917	1810	826	1990	751	2170	689	2350	636		IN GB (
	C3*P	6.5	3.00	144	1620	848	1800	763	1980	694	2170	636	2340	587	lacksquare		
	3.00	144	HIGH PRESSURE ³										1				
	_		MOD	<u></u>			HIGH	PKE55		44/4					>		+
A			MODI		1000	1070	2110	070		41/4	25.40	907	2750	746	Ľ.	A 8	++
4	C1*P	4	4.14	215	1900	1079	2110	972	2330	880	2540	807	2750	746	ECO NO.	3728 5448	
	C3*P	2	4.14	210	1900	1057	2110	952	2330	862	2540	791	2750	730	Щ	() ()	

NOTES:

- 1. NUMBER OF SUCTION HOSES & STRAINERS: 65 & 80 L/s: (1) HOSE; 95, 110 & 125 L/s: (2) HOSES.
- 2. SPEED MUST NOT EXCEED ENGINE MANUFACTURER'S MAXIMUM NO-LOAD GOVERNED SPEED.
- 3. THE PUMP IS CAPABLE OF THE MIDDLE PRESSURE AND HIGH PRESSURE PERFORMANCE SHOWN. HOWEVER, PUMP IS NOT CAPABLE OF EITHER SIMULTANEOUS MIDDLE AND NORMAL PRESSURE OR HIGH AND NORMAL PRESSURE OPERATION. ACTUAL OBTAINABLE PRESSURE SHOULD BE CHECKED IN ADVANCE, AND IS GOVERNED BY ENGINE SPEED, AVAILABLE POWER AND PUMP RATIO.

THIS CHART IS TO BE USED TO SELECT THE PROPER PUMP GEARBOX RATIO. THE INPUT SPEED AND POWER REQUIREMENTS SHOWN ARE NOMINAL ±5% FIGURES. WHEN USING THIS CHART, IT IS IMPORTANT TO OBTAIN THE NET POWER OUTPUT OF THE ENGINE. THE ENGINE MANUFACTURER'S PUBLISHED CURVE MAY NOT REPRESENT A TRUE NET POWER WHEN TOTALING ALL THE LOAD DEDUCTIONS THAT MAY BE ENCOUNTERED FOR THE RATING. THE DEDUCTIONS COULD BE ENGINE AND VEHICLE ACCESSORIES, ALTITUDE, TEMPERATURE, BAROMETER, ETC. CHECK WITH THE ENGINE MANUFACTURER FOR THEIR RECOMMENDATION AND APPROVAL OF THE NET POWER CURVE.

THE PUMPING TORQUE REQUIREMENTS MIGHT EXCEED THE TRUCK'S TRANSMISSION CASE, POWER TAKE-OFF AND DRIVELINE COMPONENT LIMITS. CONTACT THE RESPECTIVE EQUIPMENT MANUFACTURER FOR THEIR APPROVAL OF THE PUMPING APPLICATION.

LS6245 - 2006 RATING CHART

QTWO SERIES PUMP WITH "XLG" GEARBOX

RATED FROM 65 Liter/sec @1.03 MPa TO 125 Liter/sec @1.03 Mpa TWO STAGE PUMP- 267 mm (10.5 inch) DIAMETER IMPELLER

OPERATING CONDITIONS C1 & C2:

THE PUMP WILL PERFORM THE RATING WITH STANDARD TEST CONDITIONS OF SEA LEVEL ALTITUDE, 758.0 mm-Hg [29.84 in-Hg] ATMOSPHERIC PRESSURE, 20 °C [68 °F] WATER TEMPERATURE, 3 m [10 ft] LIFT, 6 m [20 ft] OF 150 mm [6 inch] SUCTION HOSE & STRAINER¹.

OPERATING CONDITION C3:

THE PUMP WILL PERFORM THE RATING WITH STANDARD TEST CONDITIONS OF SEA LEVEL ALTITUDE, 758.0 mm-Hg [29.84 in-Hg] ATMOSPHERIC PRESSURE, 20 °C [68 °F] WATER TEMPERATURE, 7 m [23 ft] LIFT, 9 m [30 ft] OF 150 mm [6 inch] SUCTION HOSE & STRAINER¹.

***V & *P PUMP OPERATING CONDITION:**

*V PUMP OPERATED WITH TRANSFER VALVE IN VOLUME POSITION (PARALLEL) PUMP OPERATION.
*P PUMP OPERATED WITH TRANSFER VALVE IN PRESSURE POSITION (SERIES) PUMP OPERATION.

Page 2 of 2

					-											age	2012		
C _	N N N	<u>≻</u> Ω	RE	S ED	PUMP INPUT DRIVE SHAFT (Rev/Min) ²											. =	NE NE		
RATED CAPACITY (LITER/SEC)	OPERATING CONDITION	CAPACITY (LITER/SEC)	PRESSURE (MPa)	POWER REQUIRED (kW)	2.83	TORQUE (N-m)	2.55	TORQUE (N-m)	2.32	TORQUE (N-m)	2.13	TORQUE (N-m)	1.96	TORQUE (N-m)	HAI E PRODITCTS INC	A Unit of IDEX Corporation	OCALA, FL 34475 USA NATE: SIZE SCALE: NONE	;	
	PUMP MODEL			CB10/65											, E	SIZE	⋖		
65	FOIVIF IVIODEL				QTWO6	5LS-28X	QTWO65LS-25X		QTWO65LS-23X		QTWO65LS-21X		QTWO65LS-19X) dd		<u>-</u> %		
	C1*V	65	1.03	122	1140	1018	1270	914	1390	835	1520	764	1650	703	Ц	<u>i</u> į	DATE	20.10	
	C2*P	45	1.34	109	1030	1009	1150	904	1260	825	1380	753	1490	698	Ì	. A) [8]	JUL	
	C3*V	32.5	1.03	92	1150	768	1280	690	1410	626	1530	577	1660	532					
		PUMP	MODI	EL						0/80			_				DLM	CHECKED MAL	
80						0LS-28X	QTWO80LS-25X		QTWO80LS-23X		QTWO80LS-21X		QTWO80LS-19X				DRAWN [SKE	
	C1*V	80	1.03	139	1160	1148	1290	1032	1420	938	1550	859	1680	793	1	4 Ш			
	C2*P	56	1.34	142	1100	1230	1230	1100	1350	1002	1470	920	1590	851			D 10	HINERY	
	C3*V	40	1.03	100	1150	830	1280	745	1410	677	1540	620	1670	571	. ((4	T ©	R MACH	
95		PUMP	MODI	EL	CB10/95										//	Ì	COPYRIGHT © NOTTO BE REPRODUCED OR USED TO	WINGS	
					QTWO95LS-28X		QTWO95LS-25X		QTWO95LS-23X		QTWO95LS-21X		QTWO95LS-19X				OPY	ER DRA	
	C1*V	95	1.03	162	1180	1309	1310	1180	1440	1073	1570	984	1700	909	1		0	Œ OTHI	
	C2*V	67	1.34	163	1260	1238	1400	1114	1540	1013	1680	928	1820	857	Н		-	MA	
	C3*V	47.5	1.03	116	1160	951	1290	856	1420	777	1550	712	1680	657	APVD	MAL			
		PUMP	MODI	EL	CB10/110 QTWO110LS-28X QTWO110LS-25X QTWO110LS-23X QTWO110LS-21X QTWO110LS-19X										₩		+++	_	
110	C1*V 110 1.03			180	1200 1436		1330	1296	1460 1180		1600 1077		1730 996		DATE	29Jul2016 17May2021			
	C2*V	77	1.34	174	1270	1312	1420	1173	1560	1068	1700	980	1840	906	DA	29Ju 7Ma			
	C3*V	55	1.03	123	1170	1004	1300	904	1430	822	1560	753	1690	695	ВУ	DLM KTN 1	$\vdash\vdash\vdash$	_	
				1	CB10/125										Ш		$\vdash\vdash\vdash$	_	
125		PUMP	MODI	EL	QTWO125LS-28X QTWO125LS-25X QTWO125LS-23X QTWO125LS-21X QTWO125LS-19X								1						
	C1*V	125	1.03	207	1240	1596	1370	1445	1510	1311	1650	1200	1790	1106	1				
	C2*V		1.34	194	1290	1435	1440	1286	1580	1172	1730	1070	1870	990	- -	SE OLS			
	C3*V	62.5	-	131	1190	1053	1330	942	1460	858	1590	788	1720	729	CHANGED FROM	LEA ED T			
						MIDDLE PRESSURE ³										IL RE			
	PUMP MODEL				CB30/13										CHA	INITIAL RELEASE GB CHANGED TO LS	$ \ \ $		
13	C1*P	13	3.00	157	1310	1141	1450	1031	1600	935	1740	859	1890	791	1	€	$ \ \ $		
	C3*P	6.5	3.00	144	1300	1057	1450	948	1590	864	1740	790	1880	731	1				
	•		•	•			HIGH	PRESS	URE ³				•		1				
		PUMP	MODI	EL		CB41/4									REV	B A	H	_	
4	C1*P	4	4.14	215	1530	1340	1700	1206	1870	1097	2040	1005	2210	928	_		+++	_	
	C3*P	2	4.14	210	1530	1312	1700	1181	1870	1074	2040	984	2210	909	ECO NO.	3728 5448	$\bigsqcup \mid$		
																		_	

NOTES:

- 1. NUMBER OF SUCTION HOSES & STRAINERS: 65 & 80 L/s: (1) HOSE; 95, 110 & 125 L/s: (2) HOSES.
- 2. SPEED MUST NOT EXCEED ENGINE MANUFACTURER'S MAXIMUM NO-LOAD GOVERNED SPEED.
- 3. THE PUMP IS CAPABLE OF THE MIDDLE PRESSURE AND HIGH PRESSURE PERFORMANCE SHOWN. HOWEVER, PUMP IS NOT CAPABLE OF EITHER SIMULTANEOUS MIDDLE AND NORMAL PRESSURE OR HIGH AND NORMAL PRESSURE OPERATION. ACTUAL OBTAINABLE PRESSURE SHOULD BE CHECKED IN ADVANCE, AND IS GOVERNED BY ENGINE SPEED, AVAILABLE POWER AND PUMP RATIO.

THIS CHART IS TO BE USED TO SELECT THE PROPER PUMP GEARBOX RATIO. THE INPUT SPEED AND POWER REQUIREMENTS SHOWN ARE NOMINAL ±5% FIGURES. WHEN USING THIS CHART, IT IS IMPORTANT TO OBTAIN THE NET POWER OUTPUT OF THE ENGINE. THE ENGINE MANUFACTURER'S PUBLISHED CURVE MAY NOT REPRESENT A TRUE NET POWER WHEN TOTALING ALL THE LOAD DEDUCTIONS THAT MAY BE ENCOUNTERED FOR THE RATING. THE DEDUCTIONS COULD BE ENGINE AND VEHICLE ACCESSORIES, ALTITUDE, TEMPERATURE, BAROMETER, ETC. CHECK WITH THE ENGINE MANUFACTURER FOR THEIR RECOMMENDATION AND APPROVAL OF THE NET POWER CURVE.

THE PUMPING TORQUE REQUIREMENTS MIGHT EXCEED THE TRUCK'S TRANSMISSION CASE, POWER TAKE-OFF AND DRIVELINE COMPONENT LIMITS. CONTACT THE RESPECTIVE EQUIPMENT MANUFACTURER FOR THEIR APPROVAL OF THE PUMPING APPLICATION.