THE CAST "I" ON PUMP HEAD TO POINT UP FOR INVERTED GEARBOX POSITION.

THE CAST "ARROW" ON PUMP HEAD TO POINT UP FOR ALL GEARBOX POSITIONS, EXCEPT INVERTED POSITION.

HORIZONTAL RH - 22.5°
(NOT AVAILABLE WITH ENGINE MOUNT)

HORIZONTAL LH - 22.5°
(NOT AVAILABLE WITH ENGINE MOUNT)

HORIZONTAL LH

VERTICAL (PUMP OVER INPUT)

INVERTED (INPUT OVER PUMP)

HORIZONTAL RH

HORIZONTAL RH - 22.5°
(NOT AVAILABLE WITH ENGINE MOUNT)

GEARBOX AND DISCHANGE POSITIONS

VIEW Y

VIEW Z

IF IN DOUBT ASK
NOTE:
1. LEVEL 1 REPAIR KIT PROVIDES EVERYTHING NEEDED TO CHANGE SEALS.
2. LEVEL 2 REPAIR KIT PROVIDES LEVEL 1 AND ITEMS NEEDED FOR BEARINGS.
3. LEVEL 3 REPAIR KIT PROVIDES LEVEL 1 & 2 AND ITEMS TO REPLACE GEARS.
4. IMPELLER RENEW KIT PROVIDES LEVEL 1 REPAIR KIT AND ITEMS TO REPLACE IMPELLER.

REPAIR PART KITS IDENTIFICATION

<table>
<thead>
<tr>
<th>RATIO NAME</th>
<th>GEAR RATIO</th>
<th>LEVEL 1 REPAIR KIT P/N</th>
<th>LEVEL 2 REPAIR KIT P/N</th>
<th>LEVEL 3 REPAIR KIT P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>-37F</td>
<td>3.74</td>
<td>546-00069-100</td>
<td>546-00069-237</td>
<td>546-00069-337</td>
</tr>
<tr>
<td>-29F</td>
<td>2.91</td>
<td></td>
<td>546-00069-329</td>
<td></td>
</tr>
<tr>
<td>-26F</td>
<td>2.60</td>
<td></td>
<td>546-00069-326</td>
<td></td>
</tr>
<tr>
<td>-23F</td>
<td>2.33</td>
<td></td>
<td>546-00069-323</td>
<td></td>
</tr>
<tr>
<td>-19F</td>
<td>1.90</td>
<td></td>
<td>546-00069-319</td>
<td></td>
</tr>
<tr>
<td>-16F</td>
<td>1.64</td>
<td></td>
<td>546-00069-316</td>
<td></td>
</tr>
<tr>
<td>-13F</td>
<td>1.31</td>
<td></td>
<td>546-00069-313</td>
<td></td>
</tr>
<tr>
<td>-11F</td>
<td>1.14</td>
<td></td>
<td>546-00069-311</td>
<td></td>
</tr>
</tbody>
</table>

IMPELLER RENEW KIT PART NUMBERS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPELLER RENEW KIT (OER)</td>
<td>516-00031-094</td>
</tr>
<tr>
<td>IMPELLER RENEW KIT (ER)</td>
<td>516-00031-095</td>
</tr>
</tbody>
</table>
ENGINE MOUNT INSTALLATION

HALE AP FLEX SERIES PUMP
GEARBOX POSITION - INVERTED, DISCHARGE POSITION - 1, ENGINE ROTATION AND OPTIONAL GEARBOX COOLER SHOWN

NOTES:
1. PRIMING SYSTEM, DISCHARGE & SUCTION VALVES, PRESSURE RELIEF VALVES & CONTROLLERS AND THERMAL RELIEF VALVES ARE AVAILABLE.
2. USE SAE 50 LONG-LIFE SYNTHETIC MANUAL TRANSMISSION FLUID MEETING ONE OR MORE OF THE FOLLOWING SPECIFICATIONS.
   - API MT-1
   - ROCKWELL / EATON / FULLER CD-50 (PS-081)
   - NAVISTAR / INTERNATIONAL TMS 6816
   - MERITOR 0-81
   - MACK TO-A Plus
   - EATON PS-164 Rev. 7
   - API MT-1
3. FILL GEARBOX UNTIL OIL LEVEL INDICATOR WINDOW IS 1/2 TO 3/4 FULL.
4. MORE OF THE FOLLOWING SPECIFICATIONS.
   - USE SAE 50 LONG-LIFE SYNTHETIC MANUAL TRANSMISSION FLUID MEETING ONE OR MORE OF THE FOLLOWING SPECIFICATIONS.
   - PRIMING SYSTEM, DISCHARGE & SUCTION VALVES, PRESSURE RELIEF VALVES & CONTROLLERS AND THERMAL RELIEF VALVES ARE AVAILABLE.

WARNING
EXCEEDING THESE LIMITS OR FAILURE TO FOLLOW THE RECOMMENDATIONS OUTLINED ON THIS DRAWING COULD DAMAGE THE UNIT.

MAXIMUM ALLOWABLE ENGINE SPEED: 4000 RPM (DRIVE CPLNG)
MAXIMUM ALLOWABLE HYDRODYNAMIC PRESSURE: 400 PSIG, **340 PSIG
MAXIMUM ALLOWABLE HYDROSTATIC PRESSURE: 900 PSIG

NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR COPYRIGHTED INFORMATION. THE MODEL NUMBER PLATE IS LOCATED ON TOP OF UNIT BASE AS SHOWN IN DRAWING.