



# **T&T Pump Co., Inc.**

## **Maintenance Check list**

1. CHECK AND MAINTAIN BEARING FRAME LUBRICATION. OIL-LUBRICATED BEARING FRAME OIL LEVELS ARE TO BE CHECKED AGAINST THE COLD LEVEL MARK ON THE VENTED OIL GAUGE (SIGHT GLASS) WHEN THE PUMP IS NOT IN OPERATION. THE OIL LEVEL DROP FROM THE COLD LEVEL MARK DURING OPERATION MUST BE NOTED AND USED FOR REFERENCE TO MONITOR OIL LEVEL DURING OPERATION.
2. REPLACE GREASE IN GREASED BEARING FRAMES EVERY 6 MONTHS. USE ONLY EXXON RONEX MP NLGI GRADE NO. 2 LITHIUM COMPLEX GREASES OR EXACT EQUIVALENT. DO NOT MIX DIFFERENT GREASES OR EVEN DIFFERENT MANUFACTURER BRANDS.
3. CHANGE OIL IN OIL-LUBRICATED BEARING FRAMES EVERY 3-6 MONTHS. USE ONLY EXXON TERESSTIC SHP 100 OR EXACT EQUIVALENT. OIL IS TO BE FILLED TO THE COLD LEVEL MARK ON THE VENTED OIL GAUGE (SIGHT GLASS). DO NOT MIX OILS OR EVEN DIFFERENT MANUFACTURER BRANDS.
4. CHECK MOTOR LUBRICATION. REPLACE MOTOR GREASE EVERY 3-6 MONTHS. USE GREASE MADE WITH POLYUREA THICKENER AND HIGH QUALITY OIL WITH NLGI NO. 2 CONSISTENCY. GREASE SHOULD HAVE A USABLE TEMPERATURE RANGE OF -20°F TO +350°F. DO NOT MIX GREASES OR EVEN DIFFERENT MANUFACTURER BRANDS.
5. MONITOR PUMP PERFORMANCE DAILY. CHECK SUCTION PRESSURE, DISCHARGE PRESSURE, FLOW, AND MOTOR AMP DRAW. PRESSURE GAUGES SHOULD BE MOUNTED AT THE PUMP SUCTION AND DISCHARGE. A FLOW METER SHOULD BE INSTALLED IMMEDIATELY AFTER THE PUMP DISCHARGE AND BEFORE THE THROTTLE VALVE. REFER TO THE FLOW METER MANUFACTURER FOR PROPER INSTALLATION OF THE FLOW METER. PUMP MUST NOT BE RAN OUTSIDE THE DESIGNATED RANGE OF OPERATION. DAMAGE TO THE PUMP MAY OCCUR IF PUMP IS NOT OPERATED WITH IN THE DESIGNATED OPERATING RANGE.
6. MONITOR BEARING FRAME SURFACE TEMPERATURES AT THE FRONT (PUMP SIDE) AND REAR (MOTOR END) OF THE BEARING FRAME. DURING NORMAL OPERATION TEMPERATURES WILL REMAIN STEADY WITH ONLY MINIMAL VARIATION. TEMPERATURES SHOULD NOT EXCEED 250°F.
7. MONITOR BEARING FRAME VIBRATION AT THE FRONT (PUMP END) AND REAR (MOTOR END) ON THE X AND Y AXES. MAXIMUM ACCEPTABLE READINGS ARE 0.2 RMS IN/SEC VELOCITY WHEN USING AN ACCELEROMETER.
8. CHECK PUMP/MOTOR COUPLING ALIGNMENT. HORIZONTAL AND VERTICAL SHOULD BE ALIGNED WITHIN 0.020" AND MAY BE VISUALLY CHECKED USING A STRAIGHT EDGE. THE COUPLING FACES SHOULD BE ALIGNED WITHIN 0.030" TO 0.060" OF PARALLEL. TO HELP ENSURE TROUBLE FREE OPERATION KEEP MISALIGNMENT VALUES AS CLOSE TO ZERO AS POSSIBLE.
9. CHECK FOR OIL AND WATER LEAKS.

***REFER TO THE OPERATION AND MAINTENANCE MANUAL FOR DETAILED INFORMATION AND PROPER PROCEDURES***

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