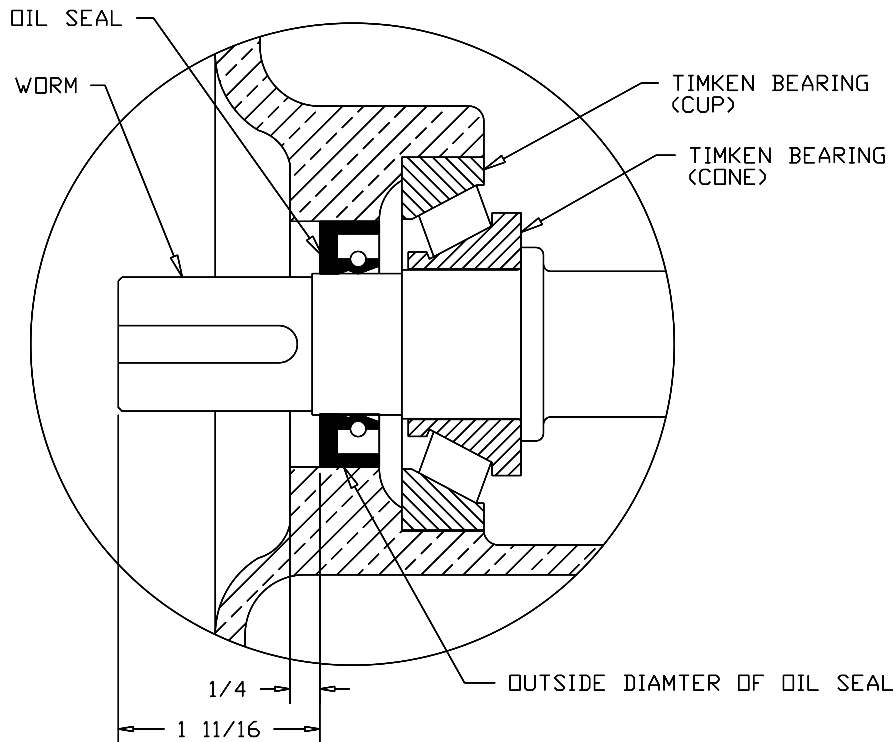


# CHANGING WORM SHAFT OIL SEAL M-TWIN DRUM

1. IF OIL IS SEEN AT THE BOTTOM OF MOTOR ATTACHING SCREWS (#12), OIL SEAL (#13) NEEDS TO BE REPLACED.
2. DISCONNECT POWER TO HOIST.
3. DRAIN OIL FROM GEARCASE.
4. DISCONNECT L1, L2 AND L3 WIRES AT MOTOR JUNCTION BOX. REMOVE 7 MOTOR ATTACHING SCREWS (#12). SUPPORT MOTOR TO INSURE NO DAMAGE IS DONE TO SLEEVE (#14). PULL MOTOR FROM HOIST.
5. REMOVE SLEEVE (#14) TO ACCESS OIL SEAL.
6. REMOVE OIL SEAL (#13). **CAUTION:** DON'T USE A SHARP TOOL TO REMOVE OIL SEAL. THIS CAN RESULT IN DAMAGE TO THE BEARING'S CAGE. SEE TOOL NOTE.
7. USE A CLOTH TO CLEAN SURFACE OF WORM SHAFT (#7) AND GEARCASE.
8. IF EXPOSED PLACE ELECTRICAL TAPE OVER KEYWAY. THIS WILL PROTECT THE OIL SEAL FROM THE SHARP EDGES OF THE KEYWAY.
9. USING LOCTITE RTV 598, PART #DM7864 COAT OUTSIDE OF THE NEW OIL SEAL. COAT INSIDE OF OIL SEAL USING GEARCASE LUBRICANT.



PARTIAL CROSS-SECTION OF  
WORM, SEAL ,& BEARING

10. INSTALL NEW OIL SEAL TO THE DEPTH NOTED ABOVE. DO NOT USE ANY SHARP TOOLS TO PRESS SEAL IN PLACE.
11. INSTALL SLEEVE (#14).
12. ATTACH MOTOR ASSEMBLY AND CONNECT L1, L2 AND L3 PROPERLY.
13. FILL GEARCASE WITH 8oz. OF EXXON CYLESSTIC TK 680. ELECTROLIFT PART #DM7146.
14. CONNECT POWER TO HOIST.
15. **IMPORTANT: CHECK FOR PROPER PHASING OF HOIST MOTOR.** PUSH THE DOWN BUTTON, THE HOOK BLOCK OR WIRE ROPE SHOULD UNWIND FROM THE HOIST DRUM. PUSH THE UP BUTTON THE HOOK BLOCK OR WIRE ROPE SHOULD MOVE TOWARD THE HOIST DRUM. IF MOVEMENT IS OPPOSITE TO THE PUSH BUTTON BEING DEPRESSED THEN IT IS NECESSARY TO SWITHC 2 OF THE 3 POWER LINES L1, L2 AND L3.

**TOOL NOTE:** A TOOL MAY BE MADE FROM A 10-32 ROD. BEND A ROD TO FORM A ¼" HOOK ON ONE END. FORM A HOOK ON THE OPPOSITE END LARGE ENOUGH FOR ONE OR TWO FINGERS TO FIT INTO THE HOOK. SMOOTH EDGES OF THE TOOL. PROBING THE OIL SEAL YOU CAN FIND A WEAK AREA OF THE SEAL. PUSH THE TOOL PAST THIS AREA, HOOK AND PULL OIL SEAL TO REMOVE FROM THE SHAFT.