

## **AUTOLUBE HD HYDRAULIC OIL AW**

A SUPERIOR QUALITY ANTI-WEAR HYDRAULIC OIL CONTAINING A STABILIZED ZINC ADDITIVE WHICH PROVIDES OUTSTANDING ANTIWEAR CHARACTERISTICS, AS WELL AS GOOD THERMAL AND OXIDATIONAL STABILITY.

### **APPLICATION**

■ USE IN MOBILE AND STATIONARY HIGH PRESSURE HYDRAULIC SYSTEMS AND CONSTRUCTION EQUIPMENT ■ HYDRAULIC SYSTEMS WITH VANE, GEAR OR PISTON PUMPS ■ ENCLOSED GEAR SYSTEMS ■ INDUSTRIAL CIRCULATING SYSTEMS AND PLASTIC INJECTION MOULDING MACHINES

### **PERFORMANCE LEVEL** (ISO L TYPE HM, TYPE HL, AND HLP)

MEETS OR EXCEEDS:

- ABEX DENISON HF-1, HF-2, HF-0
- AFNOR NFE 48-690 (DRY), 48-691 (WET), 48-603
- CETOP RP89H
- CINCINATTI MILACRON P-68, P-69, P-70
- GENERAL MOTORS LH-04-1, LH-06-1, LH-15-1
- UK PUBLIC AUTHORITY STANDARD
- SWEDISH HYDRAULIC STANDARD
- VICKERS M-2950-S, 1-286-S
- DIN 51524 PART 2
- FORD M-6C32
- B F GOODRICH 0152
- JEFFREY NO. 87
- LEE-NORSE 100-1
- US STEEL 127, 136
- REXNORD RACINE
- VICKERS 35 VQ 25

### **BENEFITS**

➤ HIGH OXIDATION STABILITY RESISTS OIL THICKENING AND DEPOSIT FORMATION IN SERVICE, WHICH RESULTS IN **EXTENDED OIL SERVICE LIFE**.

EXCELLENT ANTI WEAR PROPERTIES AND RUST AND OXIDATION INHIBITORS REDUCE WEAR BY PROTECTING SURFACES AND THEREFORE PROMOTING **LONGER EQUIPMENT LIFE AND REDUCED DOWNTIME**.

<b>TYPICAL PHYSICAL CHARACTERISTICS</b>	<b>ISO VG 32</b>	<b>ISO VG 46</b>	<b>ISO VG 68</b>	<b>ISO VG 100</b>
DENSITY @ 20°C KG/L	0.866	0.872	0.876	0.882
VISCOSITY cST @ 40°C	28.8 - 35.2	41.4 - 50.6	61.2 - 74.8	90.0 - 110.0
VISCOSITY INDEX	95	95	95	95
FLASH POINT °C (MIN)	200	210	215	220
POUR POINT °C (MAX)	-18	-15	-15	-12
FZG STAGE PASSED (MIN)	11	11	11	11
ASTM DEMULS @ 54°C	40/40/0	40/40/0	40/40/0	40/40/0
FOAM SEQUENCES I/II/III	0/0/0	0/0/0	0/0/0	0/0/0
RUST PREVENTION ASTM D665	PASS	PASS	PASS	PASS
COPPER CORR. 3 HR @ 100°C	1A	1A	1A	1A
ZINC PPM	400	400	400	400

RE: 01/05/2011