



PRODUCT DATA SHEET

DAVID WEBER OIL CO.

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GIBRALTAR LONGLIFE HZ-1000 SERIES

GIBRALTAR LONGLIFE HZ-1000 SERIES is the trademark for a line of superior quality anti-wear hydraulic oils, designed to meet the most stringent requirements of practically all major manufacturers and users of hydraulic equipment. Gibraltar Longlife HZ-1000 Series derives its anti-wear properties from a zinc-dialkyldithiophosphate (ZDDP) additive with excellent thermal, oxidative and hydrolytic stability. This special additive is very effective in reducing vane and gear pump wear, making Gibraltar Longlife HZ-1000 Series the first choice for hydraulic power transmission in systems operating at high loads, speeds, and temperatures. Its good additive stability also allows the use of Gibraltar Longlife HZ-1000 Series in severe service hydraulic systems employing axial and radial piston pumps.

PERFORMANCE LEVEL

Eaton Vickers I-286-S (Stationary),
M-2950-S (mobile), 35VQ25

Denison HF-1, HF-2, HF-0

Racine Model 5, variable
volume vane pump

Cincinnati Millicron P-68, P-69
P-70

DIN 51524, part 2
Jeffrey No. 87

Ford M-6C32
U.S. Steel 136, 127

B.F. Goodrich 0152

General Motors LH-04-1,
LH-06-1, LH-15-1

ISO 11158 Type HM

SUMMARY OF BENEFITS

Excellent thermal and
oxidative stability

Conditions seals/Anti-leak protection

Anti-wear protection

Excellent rust protection

Good demulsibility

Hydrolytic stability

Superior filterability

AVAILABILITY

Gibraltar Longlife HZ-1000 Series is available in ISO grades 32, 46, 68 in 5 gallon pails, 30 gallon drums, 55 gallon drums and bulk.

TYPICAL INSPECTIONS

ISO GRADE	32	46	68
Gravity, °API	30.9	30.5	29.6
specific @ 15.6 °C (60 °F)	0.871	0.873	0.878
Density, kg/m ³	868.9	870.8	875.8
lb/gal	7.253	7.269	7.311
Viscosity, cSt @ 40° C	32	46	68
cSt @ 100° C	5.5	6.9	8.6
SSU @ 100° F	165	238	353
SSU @ 210° F	44.7	49.3	55.2
Viscosity Index	105	105	107
Pour Point, °C	-32	-29	-29
°F	-25	-20	-20
Flash Point, °C	213	221	235
°F	415	430	456
Demulsibility, ASTM D-1401	40-40-0 (15 min.)		
Copper Strip, 100 °C, ASTM D-130	1a	1a	1a
Turbine Oxidation Stability Test, ASTM D-943, hours	8000 hours	8000 hours	8000 hours
Zinc Content (Anti-Wear)	1100 ppm	1100 ppm	1100 ppm