

Industrial Oils



PETROGULF HYDRAULIC OILS (HVI)

Product Data Sheet

PetroGulf Hydraulic Oil (HVI) oils are high viscosity index (VI) multigrade hydraulic fluids. This allows a single grade of oil to be used in marine hydraulic systems which operate in different climate zones. A particular feature of these grades is the use of VI improvers with a very high resistance to shear. To minimize the effects of water contamination, PetroGulf (HVI) grades have excellent water separability as measured by the sever ASTM 1401 test.

PetroGulf Hydraulic Oil (HVI) grades also contain highly effective corrosion inhibitor as demonstrated by the excellent result in the IP135B (steel in sea water) corrosion test.

These oils can be used for the lubrication of all high pressure and high-speed vane, piston and gear type hydraulic pumps, and equipment's operating over a wide temperature range. PetroGulf Hydraulic Oil may also be used in certain marine gearboxes and for turbocharged lubrication.

FEATURES

- Excellent anti-wear properties
- High resistance to oxidation resulting in longer service life
- High shear stability
- Good demulsification properties, high resistance to foaming
- Compatible with all rubber seals
- High viscosity index due to highly refined base oils
- Excellent anti-corrosion and anti-rust properties
- Good water oil separation

PERFORMANCE LEVELS

- VICKERS 1-286-S, M-2950-S
- DENISON HF-1, HF-2, HF-0
- GENERAL MOTORS LH-04-1, LH-06-1, LH-15-1
- CINCINATI MILACRON-P68, P69, P-70
- DIN – 51524, PART 3
- LEE NORSE 100 – 1
- B.F. GOODRICH 0152
- FORD M-6C 32
- AFNOR E 48-603
- U.S. STEEL 126, 127

TYPICAL CHARACTERISTICS

PetroGulf Hydraulic Oil (HVI)						
ISO Grade	22	32	46	68	100	150
Specific Gravity, 15°C	0.868	0.870	0.875	0.878	0.878	0.882
Air Release @ 50°C	2.9	3.6	7.4	8.5	11.6	14.9
FZD, Pass Load Stage	10	10	10	10	10	10
Flash Point (COC) °C	180	200	200	200	210	235
Viscosity						
cSt @ 40°C	21.8	32.0	46.0	68.5	98.8	150.0
cSt @ 100°C	4.9	6.4	8.21	10.8	14.0	19.1
Viscosity Index	150	150	150	148	145	145
Pour Point, °C	-30	-30	-30	-27	-21	-15
Zinc Content, m %	0.04	0.04	0.04	0.04	0.04	0.04

These characteristics are typical of current production. Whilst future production will conform to PetroGulf's specification, variations in these characteristics may occur.

HANDLING, HEALTH AND SAFETY

- Lubricants under normal conditions of use, presents no particular toxic hazard. All lubricants, of any kind should be handled with great care, particularly avoiding any contact with skin.
- Prevent any splashing and keep away from combustible materials. Store under cover and away from any risk of pollution. Dispose off used oil correctly; don't pour down drains, into water courses or the soil.
- Take used oil to an authorized collection point.
- PetroGulf will not accept any liability if the product is used other than in manner or with the precautions for the purpose specified, and hence advice should be obtained from PetroGulf's local office.



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