

Hydrostatic System – Hydraulic Oil



- Only hydraulic oil that meets either ISO 6743-4HV VG or DIN 51524 Part 3
 - As a quick check, the Viscosity Index should approach 150
- Use the correct viscosity grade hydraulic oil for the expected temperature range and application
- **P5000/P6000/LR70** should use 68 Viscosity Grade hydraulic oil only

AMBIENT TEMPERATURE	Low Range	Standard Range	High Range
	-4°F to 77°F -20°C to 25°C	14°F to 95°F -10°C to 35°C	32°F to 113°F 0°C to 45°C
Castrol: Hypsin	AWH 32	AWH 46	AWH 68
BP: Bartran	HV 32	HV 46	HV 68
Esso: Univis	N 32	N 46	N 68
Mobil:	13 M	15 M	16 M
Shell: Tellus Oil	T 32	T 46	T 68
Texaco:	HDZ 32	HDZ 46	HDZ 60

Typical Test Data

	32	46	68
Product Number	273260	273261	273262
MSDS Number	23537	23537	23537
API Gravity	33.1	32.2	31.1
Viscosity, Kinematic			
cSt at 40°C	32.0	46.0	68.0
cSt at 100°C	6.3	8.3	11.0
Viscosity, Saybolt			
SUS at 100°F	163	234	346
SUS at 210°F	47.4	54.0	63.8
Viscosity Index	153	157	154
Flash Point, °C(°F)	220(428)	186(367)	212(414)
Pour Point, °C(°F)	-50(-58)	-45(-49)	-42(-44)
Oxidation Stability			
Hours to 2.0 mg KOH/g acid number, ASTM D943	>5000	>5000	>5000
Dielectric Strength, kV ¹ , ASTM D877 ²	35	35	35