

HYDRAULIC HVLP 32, 46, 68, 100

PREMIUM HYDRAULIC FLUIDS (HVI)

BULWARK HYDRAULIC HVLP oils are high viscosity index anti-wear hydraulic fluids formulated with highly shear stable viscosity index improvers. Their superior low temperature properties help maintain viscosity in a wider temperature range than conventional anti-wear hydraulic fluids. In addition, their excellent filterability and demulsification properties provide wear protection for hydraulic pumps and motors, excellent oxidation resistance and thermal stability at high temperatures minimize deposit formation while providing longer service life. They protect hydraulic system components against rust and corrosion.

BULWARK HYDRAULIC HVLP oils are recommended for use on mobile and static hydraulic applications of industrial and other equipment, hydraulic cranes and lifts, loaders, reach trucks, forklifts, excavators, dumpers, loading ramps, and tailboards. In some instances, recommended for use on hydraulic systems of metalworking machines, or circulation systems of industrial machinery, where HVLP fluids meeting DIN 51524 Part 3 are specified.

PERFORMANCE LEVEL*

- DIN 51524-3(HV), DIN 51524-2(HM); ISO 11158 (HM,HV);
- ASTM D 6158 (HM,HV); SAE MS 1004 (HM,HV);
- BOSCH REXROTH RE 90220; JCMAS P041 HK HYDR. SPECS.;
- ANSI/AGMA 9005-E02-RO; GM LS-2; AIST 126,127; SEB 181222;
- Parker (Denison) HF-0, HF-1, HF-2(HM,HV);
- EATON M-2950-S and I-286-S3; MAG P68, P69, P70 (HM,HV);

KEY BENEFITS

- Excellent demulsibility
- Very good corrosion protection to steel and yellow metals
- High ageing and oxidation stability
- Good Anti wear protection
- Very good hydrolytic stability
- Low foaming and excellent air release

TYPICAL CHARACTERISTICS**

Properties	Test Methods	32	46	68	100
Density @ 15°C, Kg/m ³	ASTM D4052	0.860	0.864	0.866	0.869
Kinematic Viscosity @ 100°C cSt	ASTM D7042	6.12	7.83	10.60	13.81
Kinematic Viscosity @ 40° C cSt Viscosity Index	ASTM D7042	31.4	44.5	66.6	94.56
Viscosity Index (min)	ASTM D2270	146	147	148	148
Flash Point, COC, °C (min)	ASTM D92	220	224	226	232
Pour Point °C (max)	ASTM D97	-39	-39	-39	-39

* Performance levels indicated may include licensed API specs or specs that our products meet or exceed

** Typical Characteristics are typical values. Minor variations within the permissible tolerance limits may be expected on the final product.

STORAGE

All packages should be stored under cover. Where outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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