

HYDRAULIC HL 32, 46, 68, 100

STANDARD HYDRAULIC FLUIDS

BULWARK HYDRAULIC HL series is formulated with paraffinic base oils and provide anti-wear protection, oxidation, corrosion inhibition and demulsibility.

BULWARK HYDRAULIC HL are high quality, anti-wear fluids available in ISO VG 32, 46, 68 and 100 and recommended for use in light and medium duty automotive & industrial applications. They can also be used in light loaded reciprocating compressors and in gearboxes where non-EP lubricants are required.

PERFORMANCE LEVEL*

- DIN 51524-1
- ISO 11158 L-HM
- ASTM D 6158 HM

KEY BENEFITS

- Good oxidation stability provides good service life in high pressure service.
- Excellent protection against corrosion of both copper and steel
- Minimum viscosity changes over a wide temperature range.
- The special foam suppressant minimizes both foaming and aeration problems.

TYPICAL CHARACTERISTICS**

Properties	Test Methods	32	46	68	100
Specific Gravity @ 15 °C	ASTM D4052	0.884	0.886	0.889	0.892
Kinematic Viscosity @ 40 °C cSt	ASTM D445	32.0	45.40	66.90	99.30
Viscosity Index	ASTM D2270	96	95	95	95
Flash Point, COC, °C	ASTM D92	218	224	226	236
Pour Point, °C	ASTM D97	-24	-18	-18	-15
TAN mg KOH/g	ASTM D974	0.62	0.62	0.62	0.62
Foaming Tendency/Foam Stability	ASTM D892				
Seg I		0/0	0/0	0/0	0/0
Seg II		0/0	0/0	0/0	0/0
Seg III		0/0	0/0	0/0	0/0
Color	ASTM D1500	L1.5	1.5	L2.0	L2.5
Oxidation (TOST)	ASTM D943	>1200	>1200	>1200	>1200

* 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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