



FLUID PEL 46

HV HYDRAULIC FLUID FOR PUBLIC WORKS MACHINERY



HYDRAULIC RANGE

CATEGORY ISO-L-HV
GRADE ISO 46

STANDARDS & SPECIFICATIONS

POCLAIN HYDRAULICS FLUID
DENISON HF-0
ZF TE-ML 07H / 21M
EATON BROCHURE 03-401-2010



APPLICATIONS

FLUID PEL 46 is formulated to meet POCLAIN's material requirements, it has a very high resistant to shearing.

FLUID PEL 46 is recommended for all high pressure hydraulic circuits (hydrostatic transmissions, hydraulic PT, lifts, skips, cylinders, etc ...) operating in very high temperatures and in severe conditions.

FLUID PEL 46 has exceptional qualities which make it the ideal hydraulic fluid for Public Works equipment, as well as for all equipment used outdoors.

BENEFITS

- **Excellent oxidation resistance** which ensures a fluid's shelf life, thus allowing draining time intervals without danger to the equipment.
- **Remarkable resistance to shearing** ensuring viscosity stability over time.
- **A heat stability** which allows working operations at temperatures over 60°C without the risk of rapid deterioration of anti-wear additives
- **A resistance to hydrolysis** thanks to stabilized zinc presence. **FLUID PEL 46** has a resistance to degradation in the presence of water by forming varnishes that seal the filters.
- **FLUID PEL 46** remains filterable in water, only the impurities are captured in the filter. There is no risk of depleting additives.
- **High viscosity index:** low viscosity variation, based on temperatures, therefore guaranteeing good operability when cold, and good greasing when hot.

PERFORMANCES

APPROVAL | POCLAIN HYDRAULICS 904089920Q

PERFORMANCE LEVELS

ASTM D6158 HV
ISO 11158 Catégorie HV
DIN 51524 Part 3, HVLP Category
DENISON HF-0
EATON BROCHURE 03-401-2010
FIVES CINCINNATI P-70
ZF TE-ML 07H / 21M



CHARACTERISTICS

CHARACTERISTICS	UNITS	METHODS	SPECIFICATIONS	TYPICAL DATA
ISO grade	-	-	-	46
Colour	-	visual	Blue/blue-green	Blue
Density at 20°C	-	NF EN ISO 12185	-	872
Kinematic viscosity at 40°C	mm ² /s	NF T 60-100	41.4 à 50.6	43.3
Kinematic viscosity at 100°C	mm ² /s	NF T 60-100	-	7.51
Viscosity index	-	NF T 60-136		141
Pour point	°C	NF T 60-105		-45
Flash point	°C	NF T 60-118		222
Foaming Seq I	mL	ISO 6247		30/0

POCLAIN shear test after 50H

POCLAIN shear test				
- drop in viscosity at 40°C	%	NF T 60-101	<15	9.3
- drop in viscosity at 100°C	%		<15	9.4
Copper corrosion	Valuation	NF M 07-015	1b	1b
Drop in viscosity index	%	NF T160 136	<15	5.7
Percentage of water after shearing	%	ISO 6614	<0.1	0.03
Filterability index at nine	-	NF E 49-690	<3	<2

This typical data is given for information only

HEALTH, SAFETY AND ENVIRONMENT

Elimination must be carried out to conform to the rules set for the disposal of used lubricants.

Must be stored away from bad weather.

Should you need further details, our Technical Department remains at your entire disposal.

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