



Formerly Known As: Formerly known as: TAW-46

Shell Water Soluble Hydraulic Fluid 46

High Performance Hydraulic Fluid

Shell Water Soluble Hydraulic Fluid 46 is a high performance hydraulic fluid suited to meet the environmental, and performance demands of marine, dockside, or other shoreline systems. Shell Water Soluble Hydraulic Fluid 46 maintains exceptional load carrying capabilities and is specially formulated to provide effective corrosion protection and excellent anti-wear performance over a wide range of temperatures. Shell Water Soluble Hydraulic Fluid 46 has excellent thermal and oxidative stability and helps eliminates the need for frequent changeover due to premature oxidation of mineral oil-based gear oils.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- Readily biodegradable*
- Minimally-toxic*
- Not bioaccumulative*
- * Per the United States Environmental Protection Agency's (EPA) 2013 Vessel General Permit (VGP)

Main Applications

- **Environmentally sensitive areas**

Shell Water Soluble Hydraulic Fluid 46, when compared to conventional mineral oil hydraulic fluids, will have a reduced environmental impact in the event of a leak or accidental spillage.

Specifications, Approvals & Recommendations

- FM Global

For a full listing of equipment approvals and recommendations, please consult your local representative.

Typical Physical Characteristics

Properties			Method	Shell Water Soluble Hydraulic Fluid 46
ISO Viscosity Grade				46
Kinematic Viscosity	@40°C	mm ² /s	ASTM D445	49.7
Kinematic Viscosity	@100°C	mm ² /s	ASTM D445	10.3
Viscosity Index			ISO 2909	202
Density	@20°C	g/cm ³	ASTM D1298 or D4052	1.031
Flash Point			ASTM D92	300
Pour Point			ASTM D97	-51
Fire Point			ASTM D92	315
FZG (A/8,3/90)	Fail Stage		ISO 14635-1	12

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

Health, Safety & Environment

- **Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from <https://www.epc.shell.com/>

- **Protect the Environment**

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

- **Advice**

Advice on applications not covered here may be obtained from your Shell representative.