



Edition date: November 2010

Edition: 01.

Revision date: February 2013

Revision: 02.

SW 436

High-performance synthetic hydraulic fluid (Faiveley Transport PN 3000.00.436)

DESCRIPTION

SW436 is an ISO 46 synthetic fluid for hydraulic application. The specific additive pack allows its use also in "quick pump" systems without foaming and with very reduced viscosity changes.

After thorough bench tests and in service trials, **SW436** has been approved by Faiveley Transport for the application in the HPU of hydraulic braking systems. Particularly, **SW436** fixed the leakage problems experienced with mineral-based hydraulic fluids due to their significant viscosity lowering at high temperature.

The **SW436** formulation includes anti-wear, anti-oxidant and anti-foam additives able to extend the service time of the mechanical components.

ADVANTAGES

- ✓ High resistance lubricating film
- ✓ Fast heat release
- ✓ High viscosity index
- ✓ Outstanding anti-oxidant properties
- ✓ No separation of the oil components
- ✓ Compatibility with o-ring, hydraulic fittings, connections and sealing gaskets
- ✓ High filtration properties (5 micron);
- ✓ Fast defoaming
- ✓ Prompt vanishing of the oil mist

APPLICATIONS

SW436 has been specifically developed to be used in the hydraulic braking systems of railway vehicles, in high pressure systems and under wide temperature variations.

Typical applications:

- ✓ HPU of railway braking systems
- ✓ Railway tilting hydraulic systems
- ✓ Hydraulic platform lifts

COMPATIBILITY

SW436 is compatible with the hydraulic system components.

HANDLING AND STORAGE

SW436 is not easily flammable (usually has a flash point higher than mineral oils of equal viscosity) and it's riskless for the operators. For widest information, please refer to the Safety Data Sheet.

TYPICAL DATA

Temperature range, °C	- -	-30÷180
Viscosity grade	ASTM D-2422	46
Viscosity @ 100°C, cSt	ASTM D-445	9.0
Viscosity @ 40°C, cSt	ASTM D-445	45.0
Viscosity index	ASTM D-2270	> 185
Relative gravity @ 15°C, kg/m ³	DIN 51 757	840
Pour point, °C	ASTM D-97	< -42
Flash point C.O.C. , °C	ASTM D-92	> 210
Autoignition temperature, °C	ASTM D 2155	> 300
Demulsivity @ 54°C, ml oil/water/emulsion (minutes)	ASTM D-1401	40/40/0 (< 10)
Four ball wear test (mm)	ASTM D-4172	< 0.5

PACKAGING

SW436 is distributed in 25ltr tank, 60ltr and 200ltr drums.

Note

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