



A brand of **TOTAL**

HYDRELF DS

32-46-68



High performance high viscosity index(VI) anti-wear hydraulic oils for civil works and construction machineries

APPLICATIONS

- Hydraulic circuits**
 - All hydraulic systems working at high temperature and pressure
- Hydraulic motors**
 - Lubricants particularly suitable for machinery working outdoor with considerable differences in operating temperatures: public works, construction, quarries, handling.....
- Jacks**
 - Easy start at very low temperature and steady operation throughout the year

Refer to the maintenance book of your vehicle to know the recommendation of the manufacturer

PERFORMANCES

- Complies with the following international specifications :**
- AFNOR NF E 48-603 HV
 - ISO 6743/4 HV
 - DIN 51524 P3 HVLP
 - VICKERS M-2950S

CUSTOMER BENEFITS

- Long equipment life time**
 - Very high viscosity index
 - Good shear stability.
 - Superior thermal stability avoiding the formation of sludge even at high temperature.
 - Very good oxidation stability ensuring a long service life of the fluid.
 - High protection against wear insuring maximum equipment life.
- High operating reliability**
 - Excellent hydrolytic stability avoiding filter blocking.
 - Remarkable filterability even in the presence of water.
 - Excellent protection against rust and corrosion.
 - Good anti-foam and air release properties by using silicon free components.
 - Very low pour point.
 - Good demulsibility ensuring rapid water separation.

CHARACTERISTICS

Test Descriptions	Method	Units	32	46	68
Density at 15°C	ASTM D4052	Kg/m ³	854	862	866
Viscosity at 40°C	ASTM D445	mm ² /s	32	46	68
Viscosity at 100°C	ASTM D445	mm ² /s	6.7	8.2	11.6
Viscosity index	ASTM D2270	-	173	166	166
Pour point	ASTM D97	°C	-36	-33	-30
Flash point	ASTM D92	°C	213	234	239

The typical characteristics mentioned represent mean values

