Shell AW Hydraulic Oils
General purpose hydraulic oil

Shell AW Hydraulic Oils are general purpose oils based on mineral oils incorporating additives to control wear and corrosion and minimise oxidation and foaming.

Applications

- *Hydraulic systems operating under not extremely severe conditions where temperature changes and filtration requirements are moderate.*

- *Static systems of older design where leakage is a problem and a cost effective hydraulic oil offering good all-round protection is required*

- *Applications which call for a mineral oil with anti-corrosion and anti-oxidation properties.*

Shell has a superior offer for systems where the stress on the oil is high and ultra-fine filtration and sophisticated control valves are employed. In these instances Shell Tellus Oils should be used.

Specifications and approvals

AW Hydraulic Oils have been formulated to meet the requirements of ISO 11158 and AFNOR NFE 48 603.

Compatibility

AW Hydraulic Oils are compatible with all common construction metals and sealing materials used in hydraulic systems. They should not be used in conjunction with components which employ silver or silver-plated parts.

Advice

Advice on applications not covered in this leaflet may be obtained from your Shell representative.

Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet which can be obtained from your Shell representative.
Protect the environment
Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Typical Physical Characteristics

Hydraulic			32	46	68	100
ISO Viscosity Grade		ISO 3448	32	46	68	100
Kinematic Viscosity		ASTM D 445				
at 40°C	mm^2/s		32,0	46,0	68,0	100
at 100°C	mm^2/s		5,3	6,7	8,6	11,3
Viscosity Index		ISO 2909	96	97	97	97
Density at 15°C	kg/m^3	ISO 12185	869	873	875	881
Flash Point COC	°C	ISO 2592	215	230	240	250
Pour Point	°C	ISO 3016	-24	-21	-18	-18

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

Viscosity - Temperature - Diagram

Oil B in [%] 100 90 80 70 60 50 40 30 20 10 0

0 10 20 30 40 50 60 70 80 90 100 Oil A in [%]

Kinematic Viscosity [mm²/s]

Temperature [°C]

Shell AW Hydraulic Oils

100

68

46

32