

## DESCRIPTION

Premium quality ashless anti-wear zinc free hydraulic fluids designed for use in hydraulic systems in industrial and mobile service where high viscosity index is required.

Force Synthetic AW Hydraulic Oil is produced only with molecular engineered synthetic fluid that possesses nature high viscosity index and superior low temperature fluidity. It is formulated with ashless and zinc free additive package that make it suitable for pump containing steel-on-bronze lubrication surfaces and silver plate.

With these properties, the Force Synthetic AW Hydraulic Oil is particularly suitable working in extreme weather conditions that can go as low as below -35°C.

Force Synthetic AW Hydraulic Oil is extended with much longer service life than conventional mineral based product and it's recommendable to use it separately from mixing with mineral based product so as to achieve maximum life span.

## APPLICATION

- Prevent Wear.
- Protects against rust and corrosion.
- Resists foaming.
- Extra-long service life and works under-extreme weather conditions.

## BENEFITS

- Excellent wear protection at wide operating conditions.
- Superior thermal and oxidation stability to resist oil degradation and thickening for longer oil service life.

## SPECIFICATION

- DIN 51524 Part 3.
- Hagslunds-Denison, HF-0, HF-1, HF-2.
- ISO 11158 Categories HH, HL, HM, HR, and HV.
- AFNOR NF E 48-603, etc.

## TYPICAL CHARACTERISTICS

Characteristics	Method	Force Synthetic AW Hydraulic		
		32	46	68
ISO Viscosity Grade		32	46	68
Density @ 15°C, kg/ltr	ASTM D-4052	0.854	0.855	0.870
Colour	ASTM D-1500	L 1.5	L 1.0	L 1.5
Flash Point, °C	ASTM D-92	228	235	240
Pour Point, °C	ASTM D-97	-30	-27	-27
Kinematic Viscosity @ 40°C, cSt @ 100°C, cSt	ASTM D-445	32.00	46.00	68.00
		6.2	8.0	10.6
Viscosity Index	ASTM D-2270	146	146	145
Copper Strip Corrosion	ASTM D-130	1a	1a	1a