

AGIP ACER oils are high quality oils for use in circulation systems and in hydraulics circuits. They are obtained from selected paraffinic base stocks treated with antioxidant and antirust additives (R & O oils, ISO-L-DAB, ISO-L-HL classifications). They are available in many grades that cover a very broad range of viscosity and are therefore able to meet all requirements of practical interest.

## CHARACTERISTICS (TYPICAL FIGURES)

### AGIP ACER

Characteristics	ASTM	Unit	ISO VG GRADE						
			10	32	68	100	150	220	320
Density at 15°C	D 4052	kg/l	0.849	0.869	0.876	0.878	0.886	0.890	0.895
Viscosity at 100°C	D 445	mm <sup>2</sup> /s	2.8	5.4	8.7	11.3	15	18	24.1
Viscosity at 40°C	D 445	mm <sup>2</sup> /s	10.6	31.3	65.3	98	150.4	206.6	312.2
Viscosity Index	D 2270		108	105	106	101	100	98	98
Flash Point, COC	D 92	°C	148	214	228	242	274	280	286
Pour Point	D 97	°C	-18	-18	-15	-15	-12	-12	-9

## PROPERTIES AND PERFORMANCES

- AGIP ACER oils have a high viscosity index which minimizes changes in viscosity and hence in the load bearing capacity of the lubricant film over a wide range of operating temperatures.
- Their outstanding antifoam properties and capacity to release entrained air rapidly ensure excellent incompressibility. This property, which is required by hydraulic fluids, prevents any pumping and circulation troubles, and reduces the rate of thermal and oxidation alteration.
- All grades have good anti-rust properties and oxidation stability and also aging resistance.
- All grades possess good water-separability ability and so do not form stable emulsions, with consequent loss of lubricating power.

## SPECIFICATIONS

AGIP ACER products is approved or meet requirements of the following specifications :

- ISO-L-HL
- ISO-L-DAB
- DIN 51056 VBL
- DIN 51524 TEIL 1 HL
- CETOP RP 91H HL
- DENISON HF 1A
- BS4231 HSC
- AFNOR NF E 48603 HL

**APPLICATION**

AGIP ACER oils are hydraulic fluids suitable for both hydrostatic and hydrodynamic circuits (with the exception of special automatic car transmissions), particularly when high aging resistance, antirust properties and demulsibility are required.

They must not however be used when the pumps or the equipment installed need boundary layer lubrication, since they do not possess anti-wear properties.

The oils are used for lubricating air compressors and can also be employed for uses other than lubrication, where the properties of high-quality paraffinic oils are needed.