

# MAK HYDROL X

## Description

These oils are blended from high quality base oils and extremely shear stable viscosity index improver.

## Application

These are recommended for hydraulic systems of latest generation heavy earthmoving equipment such as excavators of M/s. Volvo, Demag etc.

## Benefits

- Viscosity index improver helps in maintaining the viscosity for longer periods under severe operating conditions.
- Good thermal stability, oxidation resistance, seal compatibility, corrosion resistance, anti-foaming and anti-wear characteristics.
- Low pour point of these oils ensures smooth operation even at very low temperatures.

## Performance Level

- Proprietary grades

## Technical Specifications

Characteristics	ASTM	MAK HYDROL X		
		46	68	100
Appearance	--	Clear brown fluid	Clear brown fluid	Clear brown fluid
Density at 29.5° C	D1298	0.8560	0.8595	0.8697
K.V at 40° C, cSt	D445	47.68	67.61	113.3
Viscosity Index	D2270	166	163	163
Pour Point, °C	D97	-39	-36	-33
Flash Point, (COC), °C	D92	212	222	232
Copper Strip Corrosion Test at 100°C for 3 hrs.	D130	1a	1a	1a
Foaming Characteristics/Stability	D892	10 / Nil	10 / Nil	10 / Nil
a) Sequence I		30 / Nil	30 / Nil	30 / Nil
b) Sequence II		20 / Nil	20 / Nil	20 / Nil
c) Sequence III				

All the mentioned values are typical which may vary from batch to batch.

## Storage and Handling

- Indoor Storage is always preferable.
- Barrels should be kept horizontally with bung position at 3 O'clock 9 O'clock position.
- Barrels should be kept away from dusty or heated areas.
- During handling any contact with dust must be avoided.

## Health & Safety

This grade is not hazardous under normal conditions of use. For further guidance Material Safety Data Sheet (MSDS) may be referred.

## Advice

For any further advice on applications or otherwise, please contact the nearest Bharat Petroleum territory office or Technical Services department at the address given below.

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