

# MAK HYDROL P

## Description

Mak Hydrol P is blended from high quality solvent refined mineral oils fortified with extremely shear stable viscosity index improver. Exceptionally high viscosity index of these oils ensure smoother operation of hydraulic transmission systems even under extreme ambient temperature conditions.

## Application

MAK HYDROL P 46 is approved by M/s. TELCO for use in Tata Hitachi Excavators.

MAK HYDROL P 68 is recommended for use in small L&T – Komatsu excavators.

MAK HYDROL P 100 is recommended for use in large L&T Poclain excavators.

MAK HYDROL P 100 is approved by M/s. Hyderabad Industries Ltd. for use in Demag Excavators.

## 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 and anti-wear properties
- Performs extremely well even in cold climatic conditions owing to their very low pour point.

## Performance Level

- MAK HYDROL P 46 : Proprietary grade
- MAK HYDROL P 68 : L&T- (R-201-032-11) Index A Specification
- MAK HYDROL P 100 : L&T - (Z-00-032-42) Index G Specification

## Technical Specifications

Characteristics	ASTM	MAK Hydrol P		
		46	68	100
Appearance	--	Clear brown fluid	Clear brown fluid	Clear brown fluid
Density at 15° C	D1298	0.8759	0.8805	0.892
K.V at 40° C, cSt	D445	43.28	66.03	106.92
Viscosity Index	D2270	154	144	130
Pour Point, °C	D97	-39	-36	-30
Flash Point, (COC), °C	D92	210	226	240
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	10 / Nil
b) Sequence II		20 / Nil	20 / Nil	10 / Nil
c) Sequence III				10 / Nil

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 bunk 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 and Safety

These oils are not hazardous under normal conditions of use. For further guidance appropriate 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.

### **Bharat Petroleum Corporation Ltd.**

Product and Application Development Dept.  
 BPCL 'A' Installation, Sewree Fort Road, Sewree (East)  
 Mumbai -400015  
 E-mail: [MAKcustomercare2@bharatpetroleum.in](mailto:MAKcustomercare2@bharatpetroleum.in)  
 Tel No.: 022-24176351