



energising lives

HIGH SPEED DIESEL OIL - NORMAL

TEST	METHOD	SPECIFICATION
Density @ 15°C, kg/m ³	P : 16	820 to 860
Colour (ASTM) (1)	ASTM D 1500	Max. 5
Water Content, %v	P : 40	Max. 0.05
Flash Point (Abel), °C	P : 20	Min. 35
Viscosity (Kinematic) @ 40°C, cSt	P : 25	Min. 2.0 Max. 5.0
Pour Point, °C	P : 10	Refer note 2
Copper Strip Corrosion (3 hr. @ 100°C)	P : 15	Not worse than No. 1 Strip
Sulphur, %w (3)	ASTM D : 4294	Max. 0.25
Acidity (Total), mg KOH/g	P : 2	Max. 0.2
Acidity (Inorganic), mgKOH/g	P : 2	Nil
Sediment by Extraction, %w	P : 30	Max. 0.05
Ash, %w	P : 4	Max. 0.01
Carbon residue (Ramsbottom) on 10% residue, %wt.	P : 8	Max. 0.30
CFPP, °C(4)	P : 110	Refer note 4
Cetane Number	ASTM D 4737	Min 46
or		
Cetane Index	ASTM D 4737	Min 46
Total Sediments, mg/100 ml	Appendix A of IS:1460-1974	Max. 1.6
Distillation : Recovery @ 350°C, %v Recovery @ 370°C, %v	P : 18	Min. 85 Min. 95
Lubricity (HFRR) wsd, microns (5)	ISO 12156-1 / ASTM D 6079	Max. 460

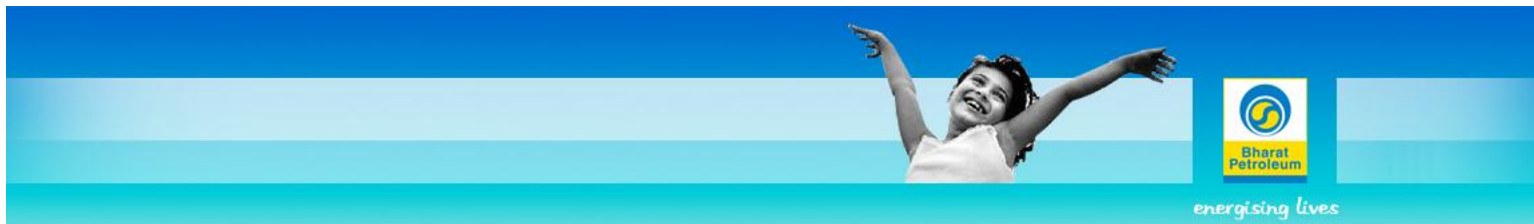
Conforms to BIS : 1460:2000 specifications for High Speed Diesel Oil.

(1) In addition to BIS specification BPCL(R) controls these parameters for better customer satisfaction.

(2) As per erstwhile OCC directive Pour Pt. Cycle is as follows

- a) March to September : 15° C
 - b) Oct 1st Fortnight : 12° C / 2nd fortnight : 6° C
 - c) November to January : 6° C
 - d) February 1st fortnight : 9° C / 2nd fortnight : 15° C
- However, Supplies Dept. advice in Pour Point is binding.

(3) Part production will be 0.05 % wt.



(4) CFPP cycle is as follows

- a) March to September : 18° C
- b) Oct 1st Fortnight : 15° C / 2nd fortnight : 9° C
- c) November to January : 9° C
- d) February 1st fortnight : 12° C / 2nd fortnight : 18° C

(5) Applicable for HSD having Sulphur less than or equal to 0.05% wt.

N.B.: For High Flash H.S.D. as required by ONGC, the specification for Flash Point (P.M.C.C.) is min. 66°C whereas all other specifications remain the same as Normal H.S.D.

**** Diesel Index = $G(\text{API}) \times \text{Aniline Point, } ^\circ\text{F} / 100$**

Properties given above are typical. We try our best to make products to meet customer requirements.