

## TURBINE OIL HFS

PETROMIN TURBINE OIL (HFS) Series are high quality, inhibited oils. These products are formulated with Group II hydro-treated base stocks having high VI, which is further enhanced by the addition of oxidation inhibitors for exceptional thermal & oxidation stability, that gives effective deposit control & keep the system clean. These inhibitors provide resistance to thermal degradation over long periods of time in the presence of entrained air and catalyzing metals.

PETROMIN TURBINE OILS (HFS) exhibit good demulsibility and superior air release characteristics, permitting water and other contaminants to readily separate from oil in the system reservoir.

### BENEFITS

- Superior oxidation stability.
- Effective protection against air entrainment and good air release properties.
- Protection against rust and corrosion over extended periods.
- Efficient demulsibility for rapid separation of water.
- Mild EP Characteristics.

### SPECIFICATION & APPROVALS

Petromin Turbine Oils HFS meets or exceeds the requirements of:

- BS 489-1999
- DIN 51515 Part I
- DIN 51517 Part II

### APPLICATIONS

PETROMIN TURBINE OILS (HFS) are designed for use in water, steam and gas turbines, bearing lubrication and system cooling where oil requirements include a long operating life and rust protection, good water separation and air release characteristics. They are also suited for high-speed gear units and other applications requiring high quality rust and oxidation inhibited type oils.



## PRODUCT DATA SHEET

### PRODUCT CHARACTERISTICS\*

PROPERTIES	UNITS	VALUE			TEST METHOD	
ISO Grade	-	<b>32</b>	<b>46</b>	<b>68</b>	DIN 51511	
Specific Gravity @ 15 °C	-	0.857	0.860	0.864	ASTM D-4052	
Viscosity	@ 40 °C	mm <sup>2</sup> /s	32.1	45.9	68.2	ASTM D-445
	@ 100 °C	mm <sup>2</sup> /s	5.51	7.05	9.18	ASTM D-445
Viscosity Index	-	108	112	111	ASTM D-2270	
Flash Point, COC	°C	211	222	228	ASTM D-92	
Pour Point	°C	-15	-12	-9	ASTM D-97	
Color	-	0.5	< 1.0	< 1.5	ASTM D-1500	
Neutralization No.	mg KOH/g	0.10	0.10	0.10	ASTM D-974	
Air Release @ 50 °C	minute	3	4	6.5	ASTM D-3427	
Zinc Content	ppm	Nil	Nil	Nil	ASTM D-4951	
Oxidation Stability Hrs to 2.0 Acid number (min)	minute	> 5500	> 5500	> 5500	ASTM D-943	
Product Code		<b>5650</b>	<b>5970</b>	<b>5950</b>		

\*The information and figures given here are typical of current production and conform to specification, minor variations may occur.

