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# BP THB<sup>TM</sup>

## Turbine Oil

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### Description

The THB range has been developed to meet the lubrication requirements for turbines and turbo compressors where a mineral-based oil is required.

The additive treatment ensures good anti-oxidation, anti-corrosion and demulsification properties, and absence of foaming in service. This data sheet applies to ISO Grades 32, 46, 68 and 100. THB 150 details are supplied on a separate sheet.

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### Applications

The grades in this range meet the lubrication requirements of steam turbines, but are also suitable for gas turbines and compressors.

THB is adequate for equipment where manufacturers specify or accept a TOST life of 2000 hours (to acidity level 2.0 mgKOH/g).

THB 68 is registered with AQIS Category 12 Lubricant Type C.

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### Main Benefits

- Long service life
  - Wide range of applications
  - Trouble-free operation for extended periods
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### Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

## Typical Characteristics

Test	Method	Units	32	46	68	100
Product Code			208000	208024	208036	208073
Density @ 15 <sup>0</sup> C	ASTM D1298	Kg/L	0.877	0.877	0.886	0.890
Flash Point, PMC	ASTM D93	<sup>0</sup> C	204	204	218	248
KV @ 40 <sup>0</sup> C	ASTM D445	cSt	32	46	68	100
KV @ 100 <sup>0</sup> C	ASTM D445	cSt	5.4	6.8	8.4	11.1
Viscosity Index	ASTM D2270	-	100	100	99	98
Pour Point	ASTM D97	<sup>0</sup> C	-9	-9	-6	-6
Colour	ASTM D1500	Rating	<1.5	1.5	1.5	1.5
Neutralisation Value	ASTM D664	mgKOH/g	0.15	0.15	0.15	0.15
Corrosion – rust protection (B)	ASTM D665	Rating	Pass	Pass	Pass	pass
Demulsification No.	IP 19	S (max.)	130	170	220	250
TOST Life to Acidity Level 2.0 mgKOH/g	ASTM D943	h	2000	2000	2000	2000

## Additional Information

### Health & Safety Recommendations

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products.

BP International will not accept liability if the product is used other than in the manner or with the precautions or for the purpose/s specified. Before the product is used other than as directed, advice should be obtained from the local BP office.

*The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.*

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