



Cyltech 50S

Crosshead engine cylinder oil

Description

Cyltech 50S is premium marine diesel engine cylinder lubricant for two-stroke crosshead engines running on low-sulphur fuels.

The Base Number (BN) is carefully levelled (at 50 BN) to meet certain customers' requests for improved flexibility when ships switch from low to moderate sulphur fuels.

The increasing use of low-sulphur fuels, especially for the `Emission Control Areas` designated by IMO, dictates an increasing demand for a suitably high performance low BN (Base Number) cylinder lubricant.

Application

Related to the well proven Cyltech technology, Cyltech 50S, is a 50 BN cylinder lubricant for the following applications:

- Prolonged operation on low-sulphur fuel (distillate or heavy fuel < 1.5% S).
- In-service running-in (distillate or heavy fuel).
- Sea trials and Test bed breaking-in.

Features / Benefits

Cyltech 50S also has the following benefits:

- Excellent control of piston ring and cylinder liner wear. Superior detergency performance for engine cleanliness.
- Ensures reduced deposits, especially calcium carbonate.
- Higher safety margin against scuffing under prolonged operation on low-sulphur fuel.

At a BN of 50 (lower than nominal 70 BN oils), it has lower ash, and therefore is by default more tolerant in engines on high cylinder oil feed-rate which could be sensitive to un-neutralised ash/deposit when on low-sulphur fuel.

The BN is carefully levelled at customers request for increased flexibility at their own discretion should they want their engines to remain on the same oil when changing over from low to moderate sulphur fuel.

Cyltech 50S covers a wide range of fuel sulphur level than a 40 BN oil; it is suitable for those operators:

- Demanding a low BN oil for low-sulphur fuel operation of below 1.5% sulphur.
- And for operators who may, at their own decision, choose to remain on the same lubricant grade for fuels with up to ~2.8% and more attentively to 3% sulphur, we however recommend that corrosion sensitive engines should select higher BN oil, especially for prolong operation at sulphur levels above ~3-3.5%.

Approval Status

Cyltech 50S is produced to meet the requirements of major engine builders. The subject of low-sulphur fuel and expert views are undergoing continuous evolution.

It is therefore essential that the recommendations of the relevant engine builder are fully complied with for selecting the appropriate oil grade.

Technical Data

Name	Method	Units	Cyltech 50S
SAE Grade			50
Density @ 15°C	ASTM D1298	g/ml	0.918
Viscosity @ 100°C	ASTM D445	cSt	19.5
Base Number	ASTM D2896	mg KOH/g	50.0
Closed Flash Point	ASTM D93	°C	>190
Pour Point	ASTM D97	°C	-9 or below

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

Packaging and Storage

Supplied in bulk and drums of approximately 210 litres. Ensure drums are tightly resealed after use.

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.

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