

# Product Data

## **ZIE BENZIN 40** **Marine / Gas Engine Oil**

### **Description:**

- ZIE BENZIN 40 is an API CD (series III) lubricant specifically formulated for naturally aspirated or even highly supercharged marine, industrial and locomotive diesel engines.
- Its additive package is suitably balanced in order to permit the use of either gas oil or marine diesel fuels, while ensuring top performance in engines with very high mean effective pressures.

### **Properties And Performance**

- ZIE BENZIN 40 has excellent detergent properties, which effectively prevent formation of lacquer, and carbon deposits on piston lands and grooves, thus keeping the rings free even in the most highly-rated engines.
- Its anti-corrosion properties provide efficient, long-term protection of liners.
- Its TBN retention properties remain high even after extended use, thus ensuring effective neutralization of acidic products.
- Its very good anti-wear properties ensure the life of all sliding parts.
- Its antifoam properties prevent breakdown of the oil film, thus ensuring superior hydrodynamic lubrication of moving parts. Despite its high detergent-dispersant efficiency, the demulsibility characteristics allow rapid separation of water accidentally entering the engine.

### **Specifications:**

- API SERVICE CD/SF

## Applications:

ZIE BENZIN 40 is specifically designed to be used on static diesel and marine diesel engines using diesel oil or marine fuel oil with sulphur content less than 2.5 % wt and formulated to achieve optimum engine life.

## Typical characteristics:

Name	Test Method	Unit	Zie Benzin SAE 40
Density at 29.5 °C	ASTM D 4052	gm/cc	0.869
Viscosity at 100°C	ASTM D 445	cSt	15.17
Viscosity at 40°C	ASTM D 445	cSt	146.33
Viscosity Index	ASTM D 2270	-	120
Flash Point, COC	ASTM D 92	°C	250
Pour Point	ASTM D 97	°C	<-12
Base Number	ASTM D 2896	mg KOH/g	20

The above figures are typical figures with normal production tolerance.

## Health & Safety

These oils are unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of industrial and personal hygiene are maintained.