



## Technical Data Sheet

- EXTRA PROTECTION FROM DEPOSITS AND CORROSION
- EXTENDED OIL LIFE

# Pure Tech Marine Piston S5 40

Lubricants for medium-speed trunk piston engines

Pure Tech Marine Piston S5 40 is a multifunctional crankcase lubricant for highly rated medium-speed diesel engines operating on residual fuel. Pure Tech Marine Piston S5 40 has a BN of 55 and is designed for the latest high output and low oil consumption engines.

### IMPROVED ENGINE OPERATION AND RELIABILITY

- **Extended oil life:** Marine Piston S5 40 is a BN55 oil which has been optimised to resist oxidation, maintain BN and viscosity in order to reduce the amount of oil sweetening that is required.
- **Engine protection:** Marine Piston S5 40 has the highest detergency of all the PureTech Pakistan products, leading to exceptionally clean crankcase, valve deck and pistons. The formulation has been further optimised to reduce deposits in critical areas, e.g. piston undercrown.
- **System efficiency:** Marine Piston S5 40 has a high detergency/low dispersancy formulation in order to effectively release contaminants and water in centrifugal separators.

### MAIN APPLICATIONS

Medium-speed industrial or marine propulsion and auxiliary engines, burning residual fuel oils, which create conditions of moderate oil stress. These conditions usually occur:

- In newer, high output engine designs and especially DF (dual fuel) engines
- Where oil consumption is < 0.5 g/kWh
- Where load factors are >90%
- Where fuels with sulphur >3% are in use

### TYPICAL PHYSICAL CHARACTERISTICS

PROPERTIES	METHOD	MARINE PISTON S5 40
SAE grade (viscosity class)		40
Kinematic Viscosity @40°C mm <sup>2</sup> /s	ASTM D445	123
Kinematic Viscosity @100°C mm <sup>2</sup> /s	ASTM D445	13.7
Viscosity Index	ASTM D2270	108
Density @15°C kg/m <sup>3</sup>	ASTM D4052	920
Flash Point °C	ASTM D93	230
Pour Point °C	ASTM D97	-21
Base Number mg /KOH/g	ASTM D2896	55
Sulphated Ash % m/m	ASTM D874	6.8
Load Carrying Capacity (FZG Gear Machine) Failure Load Stage	ISO 14635-1 A /8.3/90	11

### HEALTH, SAFETY & ENVIRONMENT

#### Health and Safety

Pure Tech Marine Piston S5 40 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

