



## MEDITRAN S SAE 10W, 30, 40, 50

**MEDITRAN S Series** are heavy duty diesel oil, formulated from high viscosity index base oil and balanced additive system.

**MEDITRAN S Series** offer protection against wear and corrosion and effective deposit control.

**MEDITRAN S Series** are suitable for turbocharged, supercharged, or naturally aspirated high speed diesel engines for transportation, heavy equipment, industry or marine applications.

**MEDITRAN S 10W** and **MEDITRAN S 30** are recommended for transmission and hydraulic system of heavy duty machineries

**MEDITRAN S Series** adalah pelumas mesin diesel tugas berat, yang diformulasikan dari base oil yang mempunyai viscosity index tinggi dan aditif yang seimbang.

**MEDITRAN S Series** memberikan perlindungan terhadap keausan dan korosi serta efektif dalam mengontrol terbentuknya deposit.

**MEDITRAN S Series** dapat digunakan untuk pelumasan mesin diesel kendaraan, alat berat, industri maupun perkapalan putaran tinggi jenis turbocharged, supercharged, atau naturally aspirated.

**MEDITRAN S 10W** dan **MEDITRAN S 30** juga dianjurkan untuk sistem transmisi dan hidrolis pada mesin tugas berat.

| TYPICAL CHARACTERISTICS           |               |                |               |               |               |
|-----------------------------------|---------------|----------------|---------------|---------------|---------------|
| Characteristics                   | Test Method   | MEDITRAN S 10W | MEDITRAN S 30 | MEDITRAN S 40 | MEDITRAN S 50 |
| SAE Viscosity Grade               |               | 10W            | 30            | 40            | 50            |
| Density at 15 °C, kg/l            | ASTM D - 4052 | 0.8832         | 0.8921        | 0.8953        | 0.9000        |
| Kinematic Viscosity at 40 °C, cSt | ASTM D - 445  | 37.7           | 98.6          | 143.8         | 235.5         |
|                                   | ASTM D - 445  | 6.24           | 11.2          | 14.4          | 19.92         |
| Viscosity Index                   | ASTM D - 2270 | 113            | 99            | 98            | 97            |
| ASTM Colour                       | ASTM D - 1500 | L 4.5          | L 5.0         | L 5.0         | L 5.5         |
| Flash Point °C                    | ASTM D - 92   | 230            | 236           | 244           | 244           |
| Pour Point, °C                    | ASTM D - 5950 | -28            | -12           | -12           | -9            |
| Total Base Number, mg KOH/g       | ASTM D - 2896 | 11.2           | 11.16         | 11.16         | 11.34         |

### PERFORMANCE LEVELS

**MEDITRAN S Series** meet the specification of API CF/CF2, MB-Approval 228.0 (SAE 40) and MB-Approval 235.12, and Komatsu KES 07.851.2000 (SAE 40).

**MEDITRAN S Series** also meet the specification of ACEA E2-96, CAT TO-2, MIL-L-2104D and MIL-L-46152B.

**MEDITRAN S 10W** and **30** are meet Allison C4 specification.

### TINGKATAN MUTU

**MEDITRAN S Series** memenuhi spesifikasi API CF/CF2, MB-Approval 228.0 (SAE 40) dan MB-Approval 235.12, dan Komatsu KES 07.851.2000 (SAE 40).

**MEDITRAN S Series** juga memenuhi spesifikasi ACEA E2-96, CAT TO-2, MIL-L-2104D dan MIL-L-46152B.

**MEDITRAN S 10W** dan **30** memenuhi spesifikasi Allison C4.