

TECHNICAL PRODUCT SHEET

# MAX SPR E7 20W—50



## DESCRIPTION

MAX SPR E7 is a super high-performance diesel engine oil, suitable for use in Euro II to Euro IV engines without diesel particulate filters. MAX SPR is the reliable backbone of many vehicle fleets, boasting ACEA E7 and API CH-4 and CI-4 performance, providing for wear protection and safeguarding the turbocharger's optimal operation by minimizing deposits formation.

## APPLICATIONS

MAX SPR E7 utilizes the latest technology to deliver exceptional performance for both on- & off-highway heavy duty, Euro III engines (or older) and Euro IV/V (with EGR or SCR systems). MAX SPR E7 surpasses the strictest specifications of international organizations and OEMs, such as MB.

## SPECIFICATIONS

ACEA	E7	DTRF	15B110 (ex. MB 228.3)
ACEA	E5	MTU	Level: Cat. 2
ACEA	E3	VOLVO	Level: VDS-3
API	CI-4 (Approved)	RENAULT TRUCKS	Level: RLD-2
API	CH-4	MACK	Level: EO-M Plus
API	CG-4	ALLISON	Level: C4
API	CF-4	DAF	Level: SHPD
API	SL (Approved)	DETROIT DIESEL	Level: DFS 93K215
MAN	Level: 3275-1	CUMMINS	Level: CES 20076
DEUTZ	Level: DQC III-10	CUMMINS	Level: CES 20077
CATERPILLAR	Level: ECF-2	CUMMINS	Level: CES 20078
CATERPILLAR	Level: ECF-1a	GLOBAL	DHD-1

## PROPERTIES

High-performance additive technology ensures superior engine cleanliness, enhanced TBN and protection, and low volatility properties, delivering durability, efficiency, and reliability with advanced lubrication for optimal performance across demanding operating conditions.

## BENEFITS

MAX SPR E7 delivers high wear protection and superior turbocharger shaft lubrication, while keeping oil galleries clean for optimal flow. It ensures full biofuel compatibility, resists corrosion, prevents piston ring sticking, reduces oil consumption, and maintains viscosity retention for reliable performance.



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### PHYSICAL-CHEMICAL CHARACTERISTICS

MAX SPR E7	METHOD	SAE 20W-50
Density at 15°C, g/cm <sup>3</sup>	ASTM D4052	0.888
Dynamic Viscosity, °C/cP	ASTM D5293	-15°C /8,100
Viscosity, Kinematic (cSt) 100°C	ASTM D445	19.3
Viscosity, Kinematic (cSt) 40°C	ASTM D445	179.0
Viscosity index	ASTM D2270	123
Flash point, COC, °C	ASTM D92	231
Pour point, °C	ASTM D97	-27
TBN, mgKOH/g	ASTM D2896	10.6

The abovementioned characteristics represent mean values.

### STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



### HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



### USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

