



## LOCOMOTIVE POWER API SP SYNTHETIC / SEMI SYNTHETIC / MINERAL

### PRODUCT DESCRIPTION:

LOCOMOTIVE POWER SP multi-grade high mileage engine oils are engineered to provide outstanding engine protection in passenger cars and light truck applications. These engine oils contain highest quality base oils and a technologically advanced additive system which includes detergents, dispersants, anti-wear and anti-friction agents as well oxidation and corrosion inhibitors. Locomotive POWER SP engine oils deliver exceptional protection and performance characteristics over the full service interval.

### APPLICATION:

Recommended for gasoline fueled automobiles and light duty trucks requiring an API Service Category SP.

### FEATURES & BENEFITS:

- Outstanding wear protection under a wide variety of operating conditions.
- Special cleaning additive to help prevent the formation of sludge and harmful deposits.
- Optimal engine operating temperature, owing to thermal control formula.
- Limits formation of deposits on the most loaded engine parts.
- Provides safe operation of catalytic exhaust converters.
- Resistant to extreme thermal load, due to high quality of base oil.
- Enables fast and easy start in extreme temperature conditions.
- Extra cleaning performance.

### PERFORMANCE LEVELS: Meets and Exceeds:

- API SP

### TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	LOCOMOTIVE POWER (SYN / SEMI SYN / MINERAL)		
			5W-40	10W-40	20W-50
Grade			5W-40	10W-40	20W-50
Kinematic Viscosity @ 104°F /40°C	ASTM D-7042	cSt	91.65	102	175.6
Kinematic Viscosity @ 212°F /100°C	ASTM D-7042	cSt	15.0	15.1	19.5
Viscosity Index (min)	ASTM D-2270	-	173	156	128
SP. Gravity @15°C/ 60°F	ASTM D-4052	g/cm <sup>3</sup>	0.848	0.860	0.880
Flash Point (min)	ASTM D-92	°C	232	234	240
Pour Point (max)	ASTM D-97	°C	-42	-39	-24
TBN	ASTM D-2896	Mg KOH/g	8.1	8.1	8.1
CCS, (°C)	ASTM D-5293	m.Pa.S	<6600 (-30°C)	<7000 (-25°C)	<9500 (-15°C)

### HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil into drains or the environment. Dispose to an authorized used oil collection point. For further Information on safety guidelines please refer to MSDS available on our website Locomotive.com