

### PRODUCT DESCRIPTION

Hyper Ecodrive 5W-40 is an innovative fully synthetic engine oil formulated for use in next-generation gasoline engines – turbocharged gasoline direct injections (TGDI), and all other vehicles operating under severe urban conditions where “Stop-Start” modes are typical. It provides excellent lubrication and wear protection in downsized and powerful engines operating in severe driving conditions. It resists premature oil ageing to fully optimize the engine oil life. Guaranteed protection against Low Speed Pre-Ignition (LSPI) and timing chain wear.



Hyper Ecodrive 5W-40 is enhanced with unique anti-friction technology, ZFM™ (Zero Friction Molecular), to considerably reduce friction and wear of highly loaded engine parts that are exposed to intensive duty cycles and high operating temperatures. Excellent oxidation control, better wear protection, minimized sludge formation, superior piston cleanliness and ultimate performance for an extended engine life.

### APPLICATION

Recommended for all types of gasoline fueled engines requiring a viscosity grade of SAE 5W-40 API SP engine oil. For passenger cars, vans, CUVs, SUVs, light duty trucks and other vehicles fitted with recent gasoline engines. Helps protect engines operating on E85 fuels.

Suitable for use in diesel engines requiring API CF oils.

Backward compatible to API SN PLUS, API SN.

### WARRANTY

Hyper Ecodrive 5W-40 meets or exceeds the OEM's warranty requirements of gasoline vehicles where API SP is required. TOTACHI<sup>®</sup> guarantees full compliance on the written specifications indicated on product labels.

### CUSTOMER BENEFITS

- **Longer Engine Life**  
Strong oil film strength to provide an outstanding wear protection and guaranteed reliability in modern downsized engines.
- **Superior Engine Durability**  
Robust engine oil designed for downsized engines with higher horsepower and torque. With carefully selected components to ensure protection against premature combustion, known as LSPI which can cause catastrophic engine failure. Additional timing chain wear protection for a maximized engine durability.
- **Optimized Drain Intervals**  
Outstanding high temperature stability for superior control of sludge, varnish, rust, corrosion and other harmful deposits to ensure maximum engine oil life.
- **Compatibility with ECS (Emission Control System)**  
The low content of phosphorus and ash contributes to the long life of the three-component catalytic converters (TWC).



### MEETS SPECIFICATIONS & REQUIREMENTS OF:

- API SP
- API SN PLUS
- API SN/CF

Suitable for use in various Japanese, European, American, Korean, Chinese, Russian OEMs requiring a 5W-40 API SP engine oil.

Before using this product, ensure it is consistent with OEM's recommendations for the equipment operating conditions and customer's maintenance practices.

### TYPICAL TEST DATA

CHARACTERISTICS	UNITS	VALUES	STANDARDS
SAE Grade	-	5W-40	SAE J300
Kinematic viscosity at:			
40 °C	cSt	43.07	ASTM D445
100 °C	cSt	8.185	ASTM D445
Viscosity index	-	168	ASTM D2270
Cranking viscosity at -35°C	mPa-s	5804	ASTM D5293
Color	-	2.5	ASTM D1500
Flash point	°C	224	ASTM D92
Pour point	°C	-45	ASTM D6892
Density at 30 °C	kg/L	0.8406	ASTM D4052
Total Base Number	mg KOH/g	8.67	ASTM D2896

### STORAGE AND HANDLING GUIDELINES

- Avoid exposing products to direct sunlight.
- Store in cool and dry places. Avoid exposing products to moisture.
- It is highly recommended to store drums indoors or under cover on pallets and racks.

### HEALTH, SAFETY & ENVIRONMENT PROTECTION

Information on health, safety and environment protection is described in the product Safety Data Sheet (SDS). The SDS file contains details on potential hazards, precautions and first aid measures, as well as information on environmental impact and disposal of used products.

TOTACHI INDUSTRIAL CO. LTD. disclaims any liability in case the product is used with violation of these instructions and warnings or it is not used for its intended purpose. Before using product other than intended, consult your local TOTACHI<sup>®</sup> distributor.