

### PRODUCT DESCRIPTION

Hyper ULV 0W-8 is an innovative ultra-low viscosity fully synthetic engine oil formulated for use in next generation gasoline engines – turbocharged gasoline direct injections (TGDI), hybrid electric vehicles (HEV), plug-in hybrid electric vehicles (PHEV), range extended electric vehicles (REEV), battery-assisted hybrid vehicles (BAHV), Extended Range Electric Vehicle (EREV) and all other vehicles operating under severe urban conditions where “Stop-Start” modes are typical. Extremely low viscosity grade for faster oil flow during engine start up, delivering significant fuel economy benefits and guaranteeing protection of critical engine parts.



Hyper ULV 0W-8 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. Prevents wear, deposits and sludge buildup. Outstanding engine performance, protection, and cleanliness to optimize the engine life.

### APPLICATION

Recommended for all types of gasoline fueled engines requiring a viscosity grade of SAE 0W-8 engine oil. For hybrid electric vehicles, plug-in hybrid electric vehicles, and other passenger cars fitted with recent gasoline engines. Helps protect engines operating on E85 fuels.

Backward compatible to API SN.

### WARRANTY

Hyper ULV 0W-8 meets or exceeds the OEM’s warranty requirements of gasoline vehicles where a 0W-8 and JASO GLV-1 oil is required. TOTACHI<sup>®</sup> guarantees full compliance on the written specifications indicated on product labels.

### CUSTOMER BENEFITS

- **Excellent Fuel Efficiency**  
Reduces internal friction and faster oil flow during engine start up to effectively improve fuel economy and greater power efficiency compared to other low viscosity oils (i.e. 0W16, 0W20, 5W20, 5W30). Improves fuel consumption from 0.7% - 1.1% versus a 0W-20 oil.
- **Exceptional Engine Protection**  
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.
- **Compatibility with ECS (Emission Control System)**  
Protects vehicle emission system components in vehicles powered by gasoline engines. It contributes in the reduction of harmful emissions to meet the most stringent modern environmental standards.
- **Hybrid Vehicles**  
Provides optimum lubrication and wear protection on engines running less during low speed and stop-and-go driving.
- **Uncompromised Performance**  
Superior piston cleanliness, good oxidation control, effective counteracts sludge formation, corrosion and rust resistance. Perfectly formulated to deliver all these properties for guaranteed performance a modern engine is demanding for.



### MEETS SPECIFICATIONS & REQUIREMENTS OF:

- JASO GLV-1

Suitable for use in TOYOTA, HONDA, NISSAN, MITSUBISHI, MAZDA and other OEMs requiring a SAE 0W-8 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	-	0W-8	SAE J300
Kinematic viscosity at:			
40 °C	cSt	24.60	ASTM D445
100 °C	cSt	5.08	ASTM D445
Viscosity index	-	139	ASTM D2270
Cranking viscosity at -35°C	mPa-s	3677	ASTM D5293
Color	-	L2.0	ASTM D1500
Flash point	°C	226	ASTM D92
Pour point	°C	-42	ASTM D6892
Density at 15°C	kg/L	0.8433	ASTM D4052
Total Base Number	mg KOH/g	7.9	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.