

VT5996 AND VT0877

ENGINE OIL PACKAGE
API SN JASO MA-2



DATA SHEET

PRODUCT INTRODUCTION:

VYTROL VT5996 and VT0877 Gasoline Engine Oil Package is formulated to meet API SN JASO MA2 specifications. Blending with conventional Viscosity Modifier and Pour Point Depressant such as OCP, HSD, PMA and Group II, Group III and Group IV base oil, it is able to cover multiple viscosity grade such as 0W-20, 5W-30, 10W-30, 5W-40, 10W-40, 15W-40 and 20W-50.

VYTROL VT5996 and VT0877 Gasoline Engine Oil Package is independently developed based on in-house high quality additive components, such as detergent, dispersant, characteristic high-temperature antioxidant and anti-wear anti-friction, it performs well in high-temp detergency, anti-oxidant and anti-wear properties. It is widely used in premium car, SUV, MPV, four-stroke motorcycles applications with its high performance recognized generally.

Lubricant oil blended with VT5996 with a treat rate of 8.5% for API SN has a lower treat rate and is more cost effective; compared with API SM and earlier specifications, it also demonstrated better performance in below criteria:

1. Performs well in high-temp detergency, sludge dispersancy, anti-oxidant, anti-corrosion and anti-wear properties;
2. Low phosphorous formula, protect 3-way catalyst, reduce emission pollution;
3. Long drain interval, lower operating cost;
4. Formulated engine oils passed API SN, JASO MA2 and in-house engine tests, further proved stable and reliable performance properties of the additive package.

PERFORMANCE GRADE	SAE VISCOSITY GRADE	TREAT RATE
API SNSN	5W-30, 5W-40, 10W-30, 10W-40, 15W-40, 20W-50	8.5% VT5996
SN + JASO MA2	5W-30, 5W-40, 10W-30, 10W-40, 15W-40, 20W-50	8.5% VT5996 + 0,18% VT0877

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VT5996 TECHNICAL SPECIFICATION AND TYPICAL VALUE:

ITEM	INDEX	TYPICAL VALUE	TEST METHOD
Appearance	Brown Viscous Liquid	Brown Viscous Liquid	Visual Inspection
Density(20°C), kg/m ³	953-993	953-993	ASTM D 4052
Kinematic Viscosity (100°C) mm ² /s	Report	Report	ASTM D 445
Flash Point (COC), °C	≥180	≥180	ASTM D 92
TBN, mg KOH/g	92-114	92-114	ASTM D 2896
Ca Content, m%	2.39-2.93	2.39-2.93	ASTM D 4951
Zn Content, m%	0.90-1.10	0.90-1.10	ASTM D 4951
P Content, m%	0.80-0.94	0.80-0.94	ASTM D 4951
N Content, m%	0.98-1.34	0.98-1.34	ASTM D 5762
Mo Content, m%	0.047-0.071	0.047-0.071	ASTM D 4951

VT0877 TECHNICAL SPECIFICATION AND TYPICAL VALUE:

ITEM	INDEX	TEST METHOD
Appearance (20°C)	Amber Transparent Liquid	Visual Inspection
Density (15°C), kg/m ³	1040-1140	ASTM D 4052
Kinematic Viscosity (100°C), mm ² /s	Report	ASTM D 445
Flash Point (COC), °C	≥121	ASTM D 92
Zn Content, m%	7.50-8.70	ASTM D 4951
P Content, m%	7.10-7.90	ASTM D 4951
Colour, No.	≤3.0	ASTM D 1500