G-Base HVI EX / VHVI EX

G-Base oils produced by hydroprocessing converting technology with catalytic dewaxing at high hydrogen pressure. By using advanced catalyst technology, dewaxing take place by converting normal, straight-chain paraffins into lube-quality branched isoparaffins. In contrast to solvent dewaxing, dewaxing by isomerization results in higher performance base stocks with high viscosity index, oxidation stability, low Noack volatility and perfect low-temperature properties.

Application

- Engine oils (5W, 10W and 15W-XX).
- Transmission oils (MTF, ATF, etc.).
- Industrial fluids for hydraulics, turbines, compressors, gears and other applications.

Key benefits

- The outstanding capability provides blenders with optimized and simplified formulations, increased flexibility, and a broader high quality blending range.
- Allow to produce engine oils and transmission fluids with required Gelation Index/CCS/Brookfield viscosity and NOACK Volatility.
- Consistent base stock quality and supply security assured by Gazpromneft Lubricants Quality Management System

Typical properties of G-Base HVI EX

Parameters	G-Base HVI-2 LT	G-Base HVI-2	G-Base HVI-4	G-Base HVI-6	G-Base HVI-8	Method
Saybolt classification	70N	70N	100N	200N	350N	-
Kinematic viscosity @ 100°C, mm^2/s	2.3	2.3	4.3	6.2	9.1	ASTM D 455
Viscosity index	-	-	112	116	114	ASTM D 2270
Flash point, °C	169	168	224	245	262	ASTM D 92
NOACK Volatility, wt%	-	-	14.0	7.8	2.3	ASTM D 5800
Pour point, °C	-48	-36	-18	-15	-12	ASTM D 97
CCS viscosity at -30°C, mPa × s	-	-	2 132	6 100	-	ASTM D5293
Density at 15°C, kg/m^3	832	833	839	845	853	ASTM D 4052
Saturates, wt%	>98	>98	>98	>98	>98	ASTM D 7419
ASTM color	<0.5	<0.5	<0.5	<0.5	<0.5	ASTM D 1500
Saybolt color	>+25	>+25	>+25	>+25	>+25	ASTM D 6045
Sulfur content, ppm	<10	<10	<10	<10	<10	ASTM D 5453
Appearance	Bright and Clear	Bright and Clear	Bright and Clear	Bright and Clear	Bright and Clear	Visually
Acid number, mg KOH/g	0	0	0	0	0	ASTM D 664
Copper corrosion, points	1b	1b	1b	1b	1b	ASTM D 130
Conradson coke residue, %	0	0	0	0	0	ASTM D 4530

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Typical properties of G-Base VHVI EX

Parameters	G-Base VHVI-4	G-Base VHVI-6	G-Base VHVI-12	Method
Kinematic viscosity @ 100°C, mm^2/s	4.3	6.2	11	ASTM D 455
Viscosity index	122	123	120	ASTM D 2270
Flash point, °C	222	242	200	ASTM D 92
NOACK Volatility, wt%	14.0	7.7	2.0	ASTM D 5800
Pour point, °C	-18	-15	-9	ASTM D 97
CCS viscosity at -30°C, mPa × s	1 864	5 788	-	ASTM D5293
Density at 15°C, kg/m^3	839	845	851	ASTM D 4052
Saturates, wt%	>98	>98	>98	ASTM D 7419
ASTM color	<0.5	<0.5	<0.5	ASTM D 1500
Saybolt color	>+25	>+25	>+25	ASTM D 6045
Sulfur content, ppm	<10	<10	<10	ASTM D 5453
Appearance	Clear and Bright	Clear and Bright	Clear and Bright	Visually
Acid number, mg KOH/g	0	0	0	ASTM D 664
Copper corrosion, points	1b	1b	1b	ASTM D 130
Conradson coke residue, %	0	0	0	ASTM D 4530

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