



SINOPEC LUBRICANT CO. LTD.

Certificate of Analysis

Issue Date: 2016-07-28

Code: 201607281001878

Product Name: J700F SN/GF-5 0W-20 Gasoline Engine Oils

Batch No.: 1607251221

Specification: Q/SH PRD0474-2012

Note:

Items	Limits	Results	Test Methods	References
Appearance	Clear and bright	Transparent	Visual	-
Viscosity @40°C mm ² /s	Report	46.50	GB/T 265	ASTM D445
Viscosity @100°C mm ² /s	6.9~<9.3	8.923	GB/T 265	ASTM D445
CCS @35°C mPa·s	Max6200	5190	GB/T 6538	ASTM D5293
MRV(-40°C) mPa·s	Max60000	45000	SH/T 0562	ASTM D4684
Flash Point(COC) °C	Min200	228	GB/T 3536	ISO 2592
Pour Point °C	Max-40	-43	GB/T 3535	ISO 3016
HTHS(150°C, 106s-1) mPa.s	Min2.6	2.63	SH/T 0703	ASTM D5481
Shear Stability Viscosity after Shearing mm ² /s	6.9~<9.3	8.690	SH/T 0103	ASTM D6278
TBN mg/g	Report	8.02	SH/T 0251	ASTM D2896
Water (v/v) %(v/v)	Max0.06	0.03	GB/T 260	ASTM D95
P (m/m) %(m/m)	0.06~0.08	0.078	SH/T 0296	-
Ca (m/m) %(m/m)	Report	0.235	SH/T 0270	-
Mg (m/m) %(m/m)	Report	0.000	SH/T 0061	DIN 51431 T1
S (m/m) %(m/m)	Max0.5	0.29	GB/T 17040	ASTM D4294
Zn (m/m) %(m/m)	Report	0.088	SH/T 0226	IP 117/53
Mo (m/m) %(m/m)	Report	0.0040	GB/T 17476	ASTM D5185
N (m/m) %(m/m)	Report	0.078	NB/SH/T 0704	ASTM D5762
Mechanical Impurity %(m/m)	Max0.01	0.007	GB/T 511	rOCT 6370
Evaporation Loss %	Max15	10.7	NB/SH/T 0059	ASTM D5800
Sulfated Ash %(m/m)	Report	0.89	GB/T 2433	ISO 3987
Foam properties Seq I. Seq II. Seq III.	Max10/0 Max50/0 Max10/0	0/0 20/0 0/0	GB/T 12579	ISO 6247
Foaming(Tendency/Stability),Seq.IV	Max100/0	70/0	SH/T 0722	ASTM D6082
Filterability Filterability EOFT,% Flow Reduction %	Max50	6.3	SH/T 0772	ASTM D6795
Filterability with 0.6% H2O % with 1.0% H2O % with 2.0% H2O % with 3.0% H2O %	Max50 Max50 Max50 Max50	-2.5 0.3 2.8 5.1	SH/T 0791	ASTM D6794
High temperature deposits(TEOST) mg	Max35	30.3	ASTM D7097	-
Gelation Index	Max12	4.80	SH/T 0732	ASTM D5133



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Homogeneity and Miscibility	Maintaining a homogeneous phase, and SAE reference oil mix Cheng Junxiang	Pass	SH/T 0801	ASTM D6922

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