

****CERTIFICATE OF QUALITY****

Control No: 260/2007

Draw certificate date:

05/02/07

Publish date:

16/02/07

For:
Packing, Tank
Reservoir: 15S031 002
Batch:

LOTOS CITY 15W/40 SF/CD

V

Lp.	PROPERTY	TEST METHOD	UNITS	RESULTS
1	Viscosity at 100 C	EN-ISO 3104:1999	mm ² /s	13.88
2	Pour Point	ASTM D 5950-02	deg C	-33
3	Flash Point COC	ASTM D 92-02b	deg C	238
4	Density, at 15 deg C	EN ISO 12185:1996	g/cm ³	0.8898
5	Appearance	visual		C & B
6	Viscosity CCS temp. -20 C	ASTM D 5293	mPa*s	5930
7	Viscosity at 40 C	ASTM D 445-04	mm ² /s	105.30
8	Viscosity Index	ASTM D 2270-04		132
9	Water	ASTM D 95-99		none
10	Total Base Number (TBN)	ASTM D 2896-03	mg KOH/g	9.28
11	Sulfated Ash	ASTM D 874-00	% wt	1.22
12	Copper corrosion	ASTM D 130-04	Class	1
13	Evaporation loss Noack	DIN 51581	% wt	10.8
14	Foaming	ASTM D 892		
	-tendency at 25 deg C		ml	0
	-tendency at 95 deg C		ml	30
	-tendency at 25 deg C ex 95 deg C		ml	0
15	Stability -10 min.	ASTM D 892		
	-at 25 deg C		ml	0
	-at 95 deg C		ml	0
	-at 25 deg C ex 95 deg C		ml	0

Certificate of Quality may be duplicated only as a whole.

Test were run in LOTOS Lab Sp. z o.o.

Product does meet requirements of the contract:

Confirm certificate - name: :J.Lendasz

Publish certificate - name: :S.Gliwiński