

**\*\*CERTIFICATE OF QUALITY\*\***

Control No: 934/2006

Draw certificate date:  
Publish date:

14/04/06  
16/02/07

For:  
Packing, Tank  
Reservoir: 15V028  
Batch:

002

**TURDUS SHPD SAE 20W/50**

V

Lp.	PROPERTY	TEST METHOD	UNITS	RESULTS
1	Viscosity at 100 C	EN-ISO 3104:1999	mm <sup>2</sup> /s	18.7
2	Flash Point COC	ASTM D 92-02b	deg C	236
3	Pour Point	ASTM D 5950-02	deg C	-30
4	Density, at 15 deg C	EN ISO 12185:1996	g/cm <sup>3</sup>	0.8912
5	Visc.CCS at -15 C	ASTM D 5293	mPa*s	8300
6	Viscosity at 40 C	ASTM D 445-04	mm <sup>2</sup> /s	167.3
7	Viscosity HTHS at 150 C (at 10 <sup>6</sup> s <sup>-1</sup> )	ASTM D 4741	mPa*s	4.9
8	Viscosity Index	ASTM D 2270-04		126
9	Shear Stability	IP 294		
	-Visc.kinem.temp.100C, 30 Shear Cycles	ASTM D 445-04	mm <sup>2</sup> /s	17.0
10	Water	ASTM D 95-99		none
11	Total Base Number (TBN)	ASTM D 2896-03	mg KOH/g	11.00
12	Sulfated Ash	ASTM D 874-00	% wt	1.3
13	Copper corrosion	ASTM D 130-04	Class	1
14	Evaporation loss Noack	DIN 51581	% wt	8.6
15	Foaming	ASTM D 892		
	-tendency at 25 deg C		ml	0
	-tendency at 95 deg C		ml	10
	-tendency at 25 deg C ex 95 deg C		ml	0
16	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: WT 4/06 wyd.1

Confirm certificate - name: :I.Kacprowicz

Publish certificate - name: :S.Gliwiński