

****CERTIFICATE OF QUALITY****

Control No: 1501/2004

Draw certificate date:

10/07/04

Publish date:

16/02/07

For:
Packing, Tank
Reservoir: 15V004
Batch: 533

1501

OLEJ PRZEKLADNIOWY PARUS GL-4 SAE 80W/90
V

Lp.	PROPERTY	TEST METHOD	UNITS	RESULTS
1	Viscosity at 100 C	EN-ISO 3104:1999	mm ² /s	14.3
2	Pour Point	ASTM D 5950-02	deg C	-33
3	Flash Point COC	ASTM D 92-02b	deg C	232
4	Density, at 15 deg C	EN ISO 12185:1996	g/cm ³	0.8879
5	Viscosity at 40 C	ASTM D 445-04	mm ² /s	129.80
6	Viscosity Index	ASTM D 2270-04		109
7	Brookfield Viscosity at -26 C	ASTM D 2983	mPa*s	112800
8	Water	ASTM D 95-99		none
9	Sulphur	ASTM D 4294-02	% (m/m)	1.6470
10	Phosphorus	ASTM D 1091	% wt	0.068
11	Corrosion action Cu in 120 deg C 3 h	ASTM D 130-04	deg Cor.	1
12	Corrosion for Synthetic Sea Water	ASTM D 665		no rust
13	Lubricating properties on 4-ball appar.	DIN 51350		
	-Welding load (Pz)		daN	309
	-load Wear Index		daN	54
14	Four Ball Wear Test-Mean Wear Scar Diam	DIN 51350	mm	0.5
15	Foaming	ASTM D 892		
	-tendency at 25 deg C		ml	0
	-tendency at 95 deg C		ml	20
	-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-3/91 wyd.5

Confirm certificate - name: :J.Szczublewski

Publish certificate - name: :S.Gliwiński