

CLIENT: MOLECULAR SCIENCE PRODUCTS PTE LTD

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Report Number 188/24471/11
 Report Date 11-Apr-11

Lab Number Q/0108/11
 Date of Analysis 8-Apr-11
 Date Received 8-Apr-11
 Product Engine Formulation - Metal Concentrate

CERTIFICATE OF QUALITY

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TEST	UNIT	METHOD	RESULT
Copper Corrosion(3hrs @ 100 deg C)	-	ASTM D130-04e1	1b
Density @ 15 deg C	kg/l	ASTM D4052-09	1.0286
Kinematic Viscosity @ 100 deg C	cSt	ASTM D445-09	7.438
Kinematic Viscosity @ 50 deg C	cSt	ASTM D445-09	41.51
Lubricity	microns	ASTM D6079-04e1	No scar
Stability By Spot Test	-	ASTM D4740-04(09)	No.1
Total Acid Number	mgKOH/g	ASTM D974-08	0.24
Aluminium	ppm wt	IP 501-05	5
Silicon	ppm wt	IP 501-05	Less than 10
Sodium	ppm wt	IP 501-05	18
Vanadium	ppm wt	IP 501-05	1
Iron	ppm wt	IP 501-05	11


 Manjit Kaur
 Manager

1. Precision parameters apply in the determination of the results specified above. Please also refer to ASTM D3244/77 (83), IP 367 and Appendix E Of IP, "Standard methods for analysis & testing with respect to the utilization of the test data to determine conformance with the relevant ASTM or IP specifications.

2. The test results relate only to the items tested.

3. This report shall not be reproduced except in full, without the written approval of the laboratory.

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