



GRADE OIL(SINGAPORE)PTE LTD

ISO 9001 CERTIFIED COMPANY (6290822154)(TM NO. T00/20555C)
4C Galistan Avenue, Singapore 669698
Tel : 065 67777320 Fax : 06567772993 Email: gradeoilsg@gmail.com
(GST REG NO. 19-9906509-E)



OCEAN TANKERS


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QUALITY ASSURANCE CERTIFICATE



Date : 13.10.2009
Product Name : WATER SOLUBLE CUTTING OIL (WITH BIOCIDES)
Batch No : MI161/1001/2009
Customer : Grade Oil (Singapore) Pte. Ltd.
Order No : HL2009/10/014
Job No : FMI/10-2009/0916

Test	Method	Results
Appearance	Visual	B/C
Color	ASTM D1500	L2.5
Viscosity @ 40C cSt	ASTM D445	41.70
Viscosity @ 100C cSt	ASTM D445	6.60
Viscosity Index	ASTM D2270	111
Density @ 15C	ASTM D4052	0.8864
Flash Point (COC) Deg C	ASTM D92	186
Pour Point Deg C	ASTM D97	-9

Analyzed By: 

Verified By: 

spc:CO-0014

Quality Assurance Laboratory



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SPECIFICATION

GRADE BRAND CUTTING OIL (GRADE CUTTING OIL) (WATER SOLUBILE, WITH BIOCID)

TEST DESCRIPTION	UNIT	TEST METHOD (ASTM)	RESULT
Appearance	-	Visual	B&C
Colour	-	D1500	L2.5
Density @ 15°C Kg/L	g/ml	4052	0.8864
Viscosity @ 40°C	-	D445	40.20 - 42.70
Viscosity @ 100°C	-	D445	6.6
Viscosity Index			>95
Flash Point 0°C	°C	D92	>180
Pour Point Deg C	°C	D97	<-8

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