



C&Lube Co., Ltd. since 1995
tel.82-52-239-5189 fax.82-52-239-5105

Special Lubricants
Custom Made Oils & Greases

182, Hwasan-ro, Onsan-up, UIJu-kun, Ulsan, KOREA, 45009
www.cnlube.co.kr, e-mail : adm@cnlube.co.kr

Certification of Analysis

Customer TALER

Date 22-Mar-23

Product TALER A3B4 5W40

Lot. No. 23032122

Test Item		Test Method	Spec.	Results
Appearance		Visual	Clear & Bright	C & B
Density(15°C), kg/m ³		ASTM D 287	Report	850.7
Kinematic Viscosity(100°C), mm ² /s		ASTM D 445	12.5 ~ 16.3	14.57
Viscosity Index		ASTM D 2270	85 min.	171
Low Temperature Cranking Viscosity(-30°C), Pa.S		ASTM D 5293	6.6 max.	5.55
Flash Point, °C		ASTM D 92	195 min.	224
Pour Point, °C		ASTM D 97	-30 max.	-42
Oxidation Stability (165.5°C, 24hr)	Viscosity Change Ratio	JIS K 2514	1.5 max.	0.98
	TAN Change ,mgKOH/g		1.6 max.	0.33
	Lacquer		Thin	Trace

This data is for your reference and it can't be used for any legal purpose.

Research & Development Center

Manager J. H. Lee





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Customer TALER

Date 21-Mar-23

Product TALER A5B5 5W30

Lot. No. 23032024

Test Item		Test Method	Spec.	Results
Appearance		Visual	Clear & Bright	C & B
Density(15°C), kg/m ³		ASTM D 287	Report	851.7
Kinematic Viscosity(100°C), mm ² /s		ASTM D 445	9.3 ~ 12.5	10.82
Viscosity Index		ASTM D 2270	85 min.	166
Apparent Viscosity (-30°C), Pa.S		ASTM D 5293	6.6 max.	4.90
Flash Point, °C		ASTM D 92	190 min.	224
Pour Point, °C		ASTM D 97	-30 max.	-42
Oxidation Stability (165.5°C, 24hr)	Viscosity Change Ratio	JIS K 2514	1.5 max.	0.98
	TAN Change ,mgKOH/g		1.6 max.	0.36
	Lacquer		Thin	Nil

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Customer TALER

Date 22-Mar-23

Product TALER SN 10W40

Lot. No. 23032125

Test Item		Test Method	Spec.	Results
Appearance		Visual	Clear & Bright	C & B
Density(15°C), kg/m ³		ASTM D 287	Report	860.2
Kinematic Viscosity(100°C), mm ² /s		ASTM D 445	12.5 ~ 16.3	14.76
Viscosity Index		ASTM D 2270	85 min.	156
Low Temperature Cranking Viscosity(-25°C), Pa.S		ASTM D 5293	7.0max.	4.65
Flash Point, °C		ASTM D 92	195 min.	228
Pour Point, °C		ASTM D 97	-24 max.	-39
Oxidation Stability (165.5°C, 24hr)	Viscosity Change Ratio	JIS K 2514	1.5 max.	0.98
	TAN Change ,mgKOH/g		1.6 max.	0.35
	Lacquer		Thin	Trace

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Certification of Analysis

Customer TALER

Date 21-Mar-23

Product TALER C2C3 5W30

Lot. No. 23032025

Test Item		Test Method	Spec.	Results
Appearance		Visual	Clear & Bright	C & B
Density(15°C), kg/m ³		ASTM D 287	Report	848.6
Kinematic Viscosity(100°C), mm ² /s		ASTM D 445	9.3 ~ 12.5	11.41
Viscosity Index		ASTM D 2270	85 min.	172
Apparent Viscosity (-30°C), Pa.S		ASTM D 5293	6.6 max.	4.00
Flash Point, °C		ASTM D 92	190 min.	224
Pour Point, °C		ASTM D 97	-30 max.	-42
Oxidation Stability (165.5°C, 24hr)	Viscosity Change Ratio	JIS K 2514	1.5 max.	0.98
	TAN Change ,mgKOH/g		1.6 max.	0.34
	Lacquer		Thin	Nil

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Customer TALER

Date 22-Mar-23

Product TALER A3B4 10W40

Lot. No. 23032124

Test Item		Test Method	Spec.	Results
Appearance		Visual	Clear & Bright	C & B
Density(15°C), kg/m ³		ASTM D 287	Report	860.2
Kinematic Viscosity(100°C), mm ² /s		ASTM D 445	12.5 ~ 16.3	14.41
Viscosity Index		ASTM D 2270	85 min.	159
Low Temperature Cranking Viscosity(-25°C), Pa.S		ASTM D 5293	7.0max.	4.00
Flash Point, °C		ASTM D 92	195 min.	228
Pour Point, °C		ASTM D 97	-24 max.	-39
Oxidation Stability (165.5°C, 24hr)	Viscosity Change Ratio	JIS K 2514	1.5 max.	0.98
	TAN Change ,mgKOH/g		1.6 max.	0.33
	Lacquer		Thin	Trace

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Customer TALER

Date 21-Mar-23

Product TALER C3 5W30

Lot. No. 23032026

Test Item		Test Method	Spec.	Results
Appearance		Visual	Clear & Bright	C & B
Density(15°C), kg/m ³		ASTM D 287	Report	848.2
Kinematic Viscosity(100°C), mm ² /s		ASTM D 445	9.3 ~ 12.5	11.72
Viscosity Index		ASTM D 2270	85 min.	169
Apparent Viscosity (-30 °C), Pa.S		ASTM D 5293	6.6 max.	4.45
Flash Point, °C		ASTM D 92	190 min.	224
Pour Point, °C		ASTM D 97	-30 max.	-42
Oxidation Stability (165.5°C, 24hr)	Viscosity Change Ratio	JIS K 2514	1.5 max.	0.98
	TAN Change ,mgKOH/g		1.6 max.	0.35
	Lacquer		Thin	Nil

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Certification of Analysis

Customer TALER

Date 22-Mar-23

Product TALER SP/GF-6 5W30

Lot. No. 23032121

Test Item		Test Method	Spec.	Results
Appearance		Visual	Clear & Bright	C & B
Density(15°C), kg/m ³		ASTM D 287	Report	858.6
Kinematic Viscosity(100°C), mm ² /s		ASTM D 445	9.3 ~ 12.5	10.50
Viscosity Index		ASTM D 2270	85 min.	153
Apparent Viscosity (-30°C), Pa.S		ASTM D 5293	6.6 max.	5.80
Flash Point, °C		ASTM D 92	190 min.	224
Pour Point, °C		ASTM D 97	-30 max.	-42
Oxidation Stability (165.5°C, 24hr)	Viscosity Change Ratio	JIS K 2514	1.5 max.	0.98
	TAN Change ,mgKOH/g		1.6 max.	0.33
	Lacquer		Thin	Nil

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Certification of Analysis

Customer TALER **Date** 13-Apr-23
Product TALER TRUCK CI-4/E7 10W40 **Lot. No.** 23041222

Test Item		Test Method	Spec.	Results
Appearance		Visual	Clear & Bright	C & B
Density(15°C), kg/m ³		ASTM D 287	Report	866.5
Kinematic Viscosity (100°C), mm ² /s		ASTM D 445	12.5 ~ 16.3	15.00
Viscosity Index		ASTM D 2270	85 min.	149
Apparent Viscosity (-25°C), Pa.S		ASTM D 5293	7.0 max.	5.40
Flash Point, °C		ASTM D 92	195 min.	234
Pour Point, °C		ASTM D 97	-24 max.	-39
Oxidation Stability (165.5°C, 24hr)	Viscosity Change Ratio	JIS K 2514	1.5 max.	1.00
	TAN Change ,mgKOH/g		1.6 max.	0.48
	Lacquer		Thin	Nil

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