

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

(YA133461)

10645C

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (36 QTS)

RECOMMENDATION	
Resample at the next service interval	to monitor. (Customer Sample
Comment: E service)	

WEAR

All component wear rates are normal.

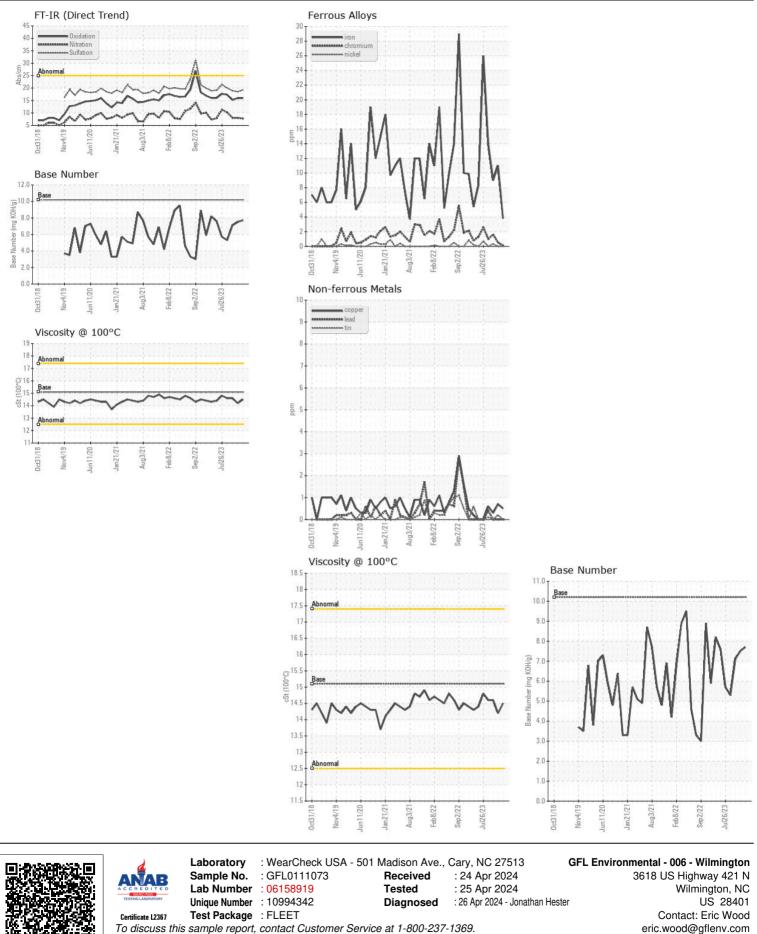
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Date Client Info 23 Apr 2024 15 Jan 2024 28 Sep 2023 Machine Age hrs Client Info 20456 19820 19245 Oil Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Oil Changed Client Info 0 0 0 0 Oil Changed Client Info Changed Not Changed Changed Filter Changed Client Info Changed N/A Changed Sample Status Viant NORMAL NORMAL NORMAL Iron ppm ASTM D5185m >50 4 11 9 Chromium ppm ASTM D5185m >2 0 0 11 2 Nickel ppm ASTM D5185m >2 0 0 0 0 Aluminum ppm ASTM D5185m >3 0 0 0 0 Qapper ppm <t< th=""><th>· · · · · · · · · · · · · · · · · · ·</th><th></th><th></th><th></th><th><u> </u></th><th></th><th></th></t<>	· · · · · · · · · · · · · · · · · · ·				<u> </u>		
Sample Date Client Info 23 Apr 2024 15 Jan 2024 28 Sep 2023 Machine Age hrs Client Info 1211 575 1083 Filter Age hrs Client Info 0 0 0 Oil Age Client Info Changed Not Changed Changed Filter Age Nr Client Info Changed NA Changed Sample Status Client Info Changed NORMAL NORMAL NORMAL Iron ppm ASTM D5185m >50 4 11 9 Chromium ppm ASTM D5185m >2 0 0 1 Silver ppm ASTM D5185m >30 0 0 0 Gapper ppm ASTM D5185m >30 0 <1 1 2 Vanadum ppm ASTM D5185m >30 0 <1 0 0 Vanadum ppm ASTM D5185m >20 0 2 <1 <t< th=""><th>Test</th><th>UOM</th><th>Method</th><th>Limit/Abn</th><th>Current</th><th>History1</th><th>History2</th></t<>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 20456 19820 19245 Oil Age hrs Client Info 0 0 0 Oil Changed Client Info Changed N/A Changed Filter Changed Client Info Changed N/A Changed Sample Status Client Info O 0 0 Chromium ppm ASTM D5185m >50 4 11 9 Chromium ppm ASTM D5185m >50 4 11 9 Chromium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Copper ppm ASTM D5185m >30 0 0 0 Visual NONE NONE NONE NONE NONE NONE Vellow Metal scalar 'Visual NONE NONE NONE NONE Vellow Metal scalar	Sample Number		Client Info		GFL0111073	GFL0098525	GFL0087759
Oil Age hrs Client Info 1211 575 1083 Filter Age hrs Client Info 0 0 0 Oil Changed Client Info Changed Not Changed Changed Sample Status Viscal NORMAL NORMAL NORMAL Iron ppm ASTM D5185m >4 11 9 Chromium ppm ASTM D5185m >4 <1 2 Nickel ppm ASTM D5185m >3 0 0 1 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >30 0 0 0 Vanadium ppm ASTM D5185m >4 0 <1 1 Vanadium ppm ASTM D5185m >4 0 <1 0 Vanadium ppm ASTM D5185m >4 0 <1 0 Vanadium ppm ASTM D5185m	Sample Date		Client Info		23 Apr 2024	15 Jan 2024	28 Sep 2023
Filter Age Oil ChangedhrsClient InfoOOOOil ChangedClient InfoChangedNot ChangedNot ChangedChangedFilter ChangedClient InfoChangedN/AChangedSample StatusClient InfoChangedN/AChangedIronppmASTM D5185m>504119ChromiumppmASTM D5185m>4<1<12NickelppmASTM D5185m>30000SilverppmASTM D5185m>300000AluminumppmASTM D5185m>300<111IronppmASTM D5185m>300<100AgradppmASTM D5185m>300<1000VanadiumppmASTM D5185m>300<1000VanadiumppmASTM D5185m>200<1000VisualNONENONENONENONENONENONENONENONENONESiliconppmASTM D5185m>2002<114PotassiumppmASTM D5185m>2002<1NONESilitscalar'VisualNONENONENONENONENONESoot %'% STM D5185m5019.218.518.9NONESilitsca	Machine Age	hrs	Client Info		20456	19820	19245
Oil Changed Filter Changed Sample StatusClient InfoChanged Changed N/ANA Changed N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/AChanged N/ANORH N/ANORH N/ANORH N/ANORH N/ANORH N/ANORH N/ANORH N/ASite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite SiteSite Site </th <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>1211</th> <th>575</th> <th>1083</th>	Oil Age	hrs	Client Info		1211	575	1083
Filter Changed Sample Status Client Info Changed NORMAL N/A Changed NORMAL Iron ppm ASTM D5185m >50 4 11 9 Chromium ppm ASTM D5185m >4 <1 <1 2 Nickel ppm ASTM D5185m >2 0 0 <1 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Copper ppm ASTM D5185m >30 0 0 0 Vanadium ppm ASTM D5185m >30 0 <1 0 Vanadium ppm ASTM D5185m >4 0 <1 0 Vanadium ppm ASTM D5185m >4 0 <1 0 Vanadium ppm ASTM D5185m >20 0 2 <1 Vellow Metal scalar *Visual NONE NONE <td< th=""><th>Filter Age</th><th>hrs</th><th>Client Info</th><th></th><th>0</th><th>0</th><th>0</th></td<>	Filter Age	hrs	Client Info		0	0	0
Sample Status NORMAL NORMAL NORMAL NORMAL Iron ppm ASTM D5185m >50 4 11 9 Chromium ppm ASTM D5185m >2 0 0 <1 Nickel ppm ASTM D5185m >2 0 0 <1 Titanium ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >3 0 0 0 Copper ppm ASTM D5185m >30 0 <1 1 2 Lead ppm ASTM D5185m >30 0 <1 1 0 Vanadium ppm ASTM D5185m >4 0 <1 0 0 Vanadium ppm ASTM D5185m >4 0 <1 1 4 Potassium ppm ASTM D7848 0 0 0 0 Soit % 'ASTM D7844 0	Oil Changed		Client Info		Changed	Not Changd	Changed
Iron ppm ASTM D5185m >50 4 11 9 Chromium ppm ASTM D5185m >2 0 0 <1 Nickel ppm ASTM D5185m >2 0 0 0 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >30 0 <1 0 Vanadium ppm ASTM D5185m >44 0 <1 0 Vanadium ppm ASTM D5185m >40 <1 0 0 Vanadium ppm ASTM D5185m >20 0 2 <1 Veltow Metal scalar *Visual NONE NONE NONE NONE Silicon ppm ASTM D7624 >20 7.7 <td< th=""><th>Filter Changed</th><th></th><th>Client Info</th><th></th><th>Changed</th><th>N/A</th><th>Changed</th></td<>	Filter Changed		Client Info		Changed	N/A	Changed
Chromium ppm ASTM D5185m >4 <1	Sample Status				NORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >4 <1	Iron	ppm	ASTM D5185m	>50	4	11	9
Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 <1 1 2 Lead ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >30 0 <1 0 Vanadium ppm ASTM D5185m >4 0 0 2 <1 Yellow Metal scalar *Visual NONE NONE NONE NONE Silicon ppm ASTM D7624 >20 7.7 8.0 8.0 Sulfation Abs/inm *ASTM D7624 >20	Chromium	ppm	ASTM D5185m	>4	<1	<1	2
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 <1 1 2 Lead ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >30 0 <1 0 Vanadium ppm ASTM D5185m >4 0 <1 0 Vanadium ppm ASTM D5185m >4 0 <1 0 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m<>>20 0 2 <1 Water WC Method >0.1 NEG NEG NEG Sott % % *ASTM D5185m >20 7.7 8.0 8.0 8.0 Solfation Abs/.Imm ASTM D7624 >20	Nickel	ppm	ASTM D5185m	>2	0	0	<1
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 <1 1 2 Lead ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >35 <1 <1 <1 <1 Tin ppm ASTM D5185m >35 <1 <1 0 Vanadium ppm ASTM D5185m >4 0 <1 0 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 0 2 <1 4 Potassium ppm ASTM D5185m >20 0 2 <1 Silicon ppm ASTM D5185m >20 0 2 <1 Sotifation	Titanium	ppm	ASTM D5185m		0	0	0
Aluminum ppm ASTM D5185m >9 <1	Silver		ASTM D5185m	>3	0	0	0
Lead ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >35 <1 <1 <1 Tin ppm ASTM D5185m >4 0 <1 0 Vanadium ppm ASTM D5185m 0 <1 0 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Silicon ppm ASTM D5185m >+100 4 11 4 Potassium ppm ASTM D5185m >+100 4 111 4 Potassium ppm ASTM D5185m >20 0 2 1 Water WC Method >0.1 NEG NEG NEG Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NORML NORML	Aluminum		ASTM D5185m	>9	<1	1	2
Tin ppm ASTM D5185m >4 0 <1	Lead		ASTM D5185m	>30	0	0	0
Vanadium ppm ASTM D5185m 0 <1	Copper	ppm	ASTM D5185m	>35	<1	<1	<1
White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m >+100 4 11 4 Potassium ppm ASTM D5185m >20 0 2 <1 Water WC Method >0.1 NEG NEG NEG Soot % % *ASTM D7624 >20 7.7 8.0 8.0 Sulfation Abs/mm< *ASTM D715 >30 19.2 18.5 18.9 Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORM NORML NORML NORML NORML </th <th>Tin</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>4</th> <th>0</th> <th><1</th> <th>0</th>	Tin	ppm	ASTM D5185m	>4	0	<1	0
Yellow Metal scalar *Visual NONE NONE NONE NONE Silicon ppm ASTM D5185m >+100 4 11 4 Potassium ppm ASTM D5185m >20 0 2 <1 Water WC Method >0.1 NEG NEG NEG Soot % % *ASTM D7644 0 0 0 0 Nitration Abs/cm *ASTM D7624 >20 7.7 8.0 8.0 Sulfation Abs/mm< *ASTM D7415 >30 19.2 18.5 18.9 Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORML	Vanadium	ppm	ASTM D5185m		0	<1	0
Silicon ppm ASTM D5185m >+100 4 111 4 Potassium ppm ASTM D5185m >20 0 2 <1	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 0 2 <1	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 0 2 <1	Silicon		AQTM DE105~	S. 100	Λ		л
Water WC Method >0.1 NEG NEG NEG Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 7.7 8.0 8.0 Sulfation Abs/tmm *ASTM D7624 >20 7.7 8.0 8.0 Sulfation Abs/tmm *ASTM D7615 >30 19.2 18.5 18.9 Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Goron scalar *Visual NOR					-		
Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 7.7 8.0 8.0 Sulfation Abs/cm *ASTM D7624 >20 7.7 8.0 8.0 Sulfation Abs/cm *ASTM D7624 >30 19.2 18.5 18.9 Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NORM NORML NORML NORML NORML Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual >0.1 NEG NEG NEG Sodium ppm ASTM D5185m 50 34 29 3 Barium ppm ASTM D5185m 50 51 52 59		ррп				_	
Nitration Abs/cm *ASTM D7624 >20 7.7 8.0 8.0 Sulfation Abs/.1mm *ASTM D7624 >30 19.2 18.5 18.9 Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NOR NOR NONE NONE NONE Appearance scalar *Visual NORML Solitar Solitar Solitar <t< th=""><th></th><th>0/_</th><th></th><th>>0.1</th><th></th><th></th><th></th></t<>		0/_		>0.1			
SulfationAbs/.tmm*ASTM D7415>3019.218.518.9Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m2422BoronppmASTM D5185m5034293BariumppmASTM D5185m50515259ManganeseppmASTM D5185m505111<1MagnesiumppmASTM D5185m560590562827CalciumppmASTM D5185m1510153615611256PhosphorusppmASTM D5185m780775784973ZincppmASTM D5185m2040263524103004OxidationAbs/.tmm*ASTM D7414>2515.915.915.2Base Number (BN)mg KOH/gASTM D289610.27.77.57.1		, .		>20			
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Odor scalar *Visual NORML NEG Segittee Seitte Seitte					-		NORML
Emulsified Water scalar *Visual >0.1 NEG NEG NEG Sodium ppm ASTM D5185m 2 4 2 Boron ppm ASTM D5185m 50 34 29 3 Barium ppm ASTM D5185m 5 0 0 0 Molybdenum ppm ASTM D5185m 50 51 52 59 Manganese ppm ASTM D5185m 0 <1 1 <1 Magnesium ppm ASTM D5185m 560 590 562 827 Calcium ppm ASTM D5185m 1510 1536 1561 1256 Phosphorus ppm ASTM D5185m 780 775 784 973 Zinc ppm ASTM D5185m 870 919 933 1192 Sulfur ppm ASTM D5185m 2040 2635 2410 3004 Oxidation Abs/.1mm *ASTM D2896 10.2					-		
Boron ppm ASTM D5185m 50 34 29 3 Barium ppm ASTM D5185m 5 0 0 0 Molybdenum ppm ASTM D5185m 50 51 52 59 Manganese ppm ASTM D5185m 0 <1 1 <1 Magnesium ppm ASTM D5185m 560 590 562 827 Calcium ppm ASTM D5185m 1510 1536 1561 1256 Phosphorus ppm ASTM D5185m 780 775 784 973 Zinc ppm ASTM D5185m 870 919 933 1192 Sulfur ppm ASTM D5185m 2040 2635 2410 3004 Oxidation Abs/.1mm<*ASTM D7414 >25 15.9 15.9 15.2 Base Number (BN) mg KOH/g ASTM D2896 10.2 7.7 7.5 7.1					-		
Boron ppm ASTM D5185m 50 34 29 3 Barium ppm ASTM D5185m 5 0 0 0 Molybdenum ppm ASTM D5185m 50 51 52 59 Manganese ppm ASTM D5185m 0 <1 1 <1 Magnesium ppm ASTM D5185m 560 590 562 827 Calcium ppm ASTM D5185m 1510 1536 1561 1256 Phosphorus ppm ASTM D5185m 780 775 784 973 Zinc ppm ASTM D5185m 870 919 933 1192 Sulfur ppm ASTM D5185m 2040 2635 2410 3004 Oxidation Abs/.1mm *ASTM D2896 10.2 7.7 7.5 7.1	Sodium	ppm	ASTM D5185m		2	4	2
Molybdenum ppm ASTM D5185m 50 51 52 59 Manganese ppm ASTM D5185m 0 <1 1 <1 Magnesium ppm ASTM D5185m 560 590 562 827 Calcium ppm ASTM D5185m 1510 1536 1561 1256 Phosphorus ppm ASTM D5185m 780 775 784 973 Zinc ppm ASTM D5185m 870 919 933 1192 Sulfur ppm ASTM D5185m 2040 2635 2410 3004 Oxidation Abs/.1mm *ASTM D7414 >25 15.9 15.9 15.2 Base Number (BN) mg KOH/g ASTM D2896 10.2 7.7 7.5 7.1	Boron	ppm	ASTM D5185m	50	34	29	3
Molybdenum ppm ASTM D5185m 50 51 52 59 Manganese ppm ASTM D5185m 0 <1 1 <1 Magnesium ppm ASTM D5185m 560 590 562 827 Calcium ppm ASTM D5185m 1510 1536 1561 1256 Phosphorus ppm ASTM D5185m 780 775 784 973 Zinc ppm ASTM D5185m 870 919 933 1192 Sulfur ppm ASTM D5185m 2040 2635 2410 3004 Oxidation Abs/.1mm *ASTM D7414 >25 15.9 15.9 15.2 Base Number (BN) mg KOH/g ASTM D2896 10.2 7.7 7.5 7.1	Barium		ASTM D5185m	5	0	0	0
Manganese ppm ASTM D5185m 0 <1				50			
Magnesium ppm ASTM D5185m 560 590 562 827 Calcium ppm ASTM D5185m 1510 1536 1561 1256 Phosphorus ppm ASTM D5185m 780 775 784 973 Zinc ppm ASTM D5185m 870 919 933 1192 Sulfur ppm ASTM D5185m 2040 2635 2410 3004 Oxidation Abs/.1mm *ASTM D7414 >25 15.9 15.9 15.2 Base Number (BN) mg KOH/g ASTM D2896 10.2 7.7 7.5 7.1							<1
Calcium ppm ASTM D5185m 1510 1536 1561 1256 Phosphorus ppm ASTM D5185m 780 775 784 973 Zinc ppm ASTM D5185m 870 919 933 1192 Sulfur ppm ASTM D5185m 2040 2635 2410 3004 Oxidation Abs/.1mm *ASTM D7414 >25 15.9 15.9 15.2 Base Number (BN) mg KOH/g ASTM D2896 10.2 7.7 7.5 7.1	-		ASTM D5185m	560	590	562	827
Zinc ppm ASTM D5185m 870 919 933 1192 Sulfur ppm ASTM D5185m 2040 2635 2410 3004 Oxidation Abs/.1mm *ASTM D714 >25 15.9 15.9 15.2 Base Number (BN) mg KOH/g ASTM D2896 10.2 7.7 7.5 7.1	Calcium		ASTM D5185m			1561	1256
Sulfur ppm ASTM D5185m 2040 2635 2410 3004 Oxidation Abs/.tmm *ASTM D7414 >25 15.9 15.9 15.2 Base Number (BN) mg KOH/g ASTM D2896 10.2 7.7 7.5 7.1	Phosphorus	ppm	ASTM D5185m	780	775	784	973
Oxidation Abs/.1mm *ASTM D7414 >25 15.9 15.9 15.2 Base Number (BN) mg KOH/g ASTM D2896 10.2 7.7 7.5 7.1	Zinc	ppm	ASTM D5185m	870	919	933	1192
Base Number (BN) mg KOH/g ASTM D2896 10.2 7.7 7.5 7.1	Sulfur	ppm	ASTM D5185m	2040	2635	2410	3004
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	15.9	15.2
Visc @ 100°C cSt ASTM D445 15.1 14.5 14.2 14.6	Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.7	7.5	7.1
	Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.2	14.6



To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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