

Machine Id **1570** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 15W40 (--- QTS)**

RECOM	MEND/	ATION	

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

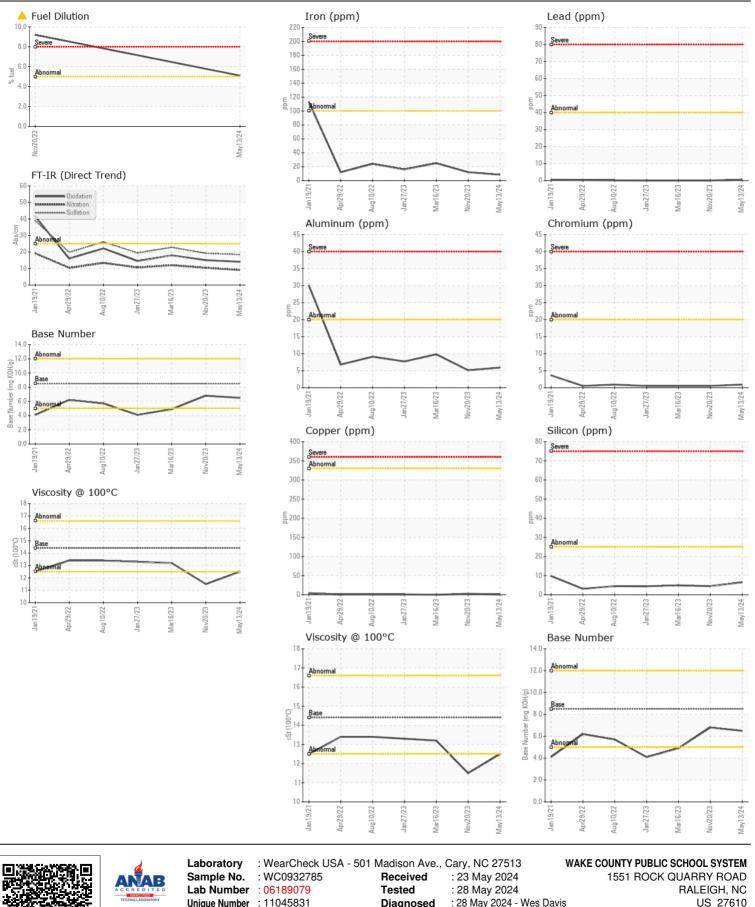
CONTAMINATION

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Sample Number Client Info WC0932785 WC0870731 WC0970735 Sample Date Client Info 13 May 2024 20 Nov 2023 16 Mar 202 Machine Age mls Client Info 294217 279299 264179 Oil Age mls Client Info 0 0 0 0 Filter Age mls Client Info Not Changd					~~~~		
Sample Date Client Info 13 May 2024 20 Nov 2023 16 Mar 20 Machine Age mis Client Info 0 0 0 0 Oil Age mis Client Info 0 0 0 0 Oil Changed Client Info Not Changd Not Changd Not Changd Not Changd Filter Age mis Client Info Not Changd Not Changd Not Changd Sample Status - Not Changd Not Changd Not Changd Not Changd Iron ppm ASTM D5185m >100 8 12 25 Chromium ppm ASTM D5185m >20 <1 -1 0 0 Titanium ppm ASTM D5185m >33 <1 0 0 0 Astm D5185m >33 <1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age mls Client Info 0 0 0 0 Filter Age mls Client Info 0 0 0 0 Oil Changed Client Info Not Changd	Sample Number		Client Info		WC0932785	WC0870731	WC0792855
Oil Age mls Client Info 0 0 0 Filter Age mls Client Info Not Changd Not Changd Not Changd Not Changd Filter Changed Client Info Not Changd Not Changd Not Changd Not Changd Sample Status Client Info Not Changd Not Changd Not Changd Iron ppm ASTM D5185m >100 8 12 25 Chromium ppm ASTM D5185m >4 <1 0 0 Titanium ppm ASTM D5185m >4 <1 0 0 Aluminum ppm ASTM D5185m >40 <1 0 0 Vanadium ppm ASTM D5185m >15 <1 0 0 Vanadium ppm ASTM D5185m >25 6 4 5 Potassium ppm ASTM D5185m >20 3 4 4 Fuel % ASTM D5185m >20 3 </th <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>13 May 2024</th> <th>20 Nov 2023</th> <th>16 Mar 2023</th>	Sample Date		Client Info		13 May 2024	20 Nov 2023	16 Mar 2023
Filter Age mls Client Info Not Changed N	Machine Age	mls	Client Info		294217	279299	264179
Oil Changed Client Info Not Changd Not	Oil Age	mls	Client Info		0	0	0
Filter Changed Sample Status Client Info Not Changd ABNORMAL Not Changd SEVERE Not Changd NORMAL Not Changd SEVERE Not Changd NORMAL Iron ppm ASTM D5185m >100 8 12 25 Chromium ppm ASTM D5185m >20 <1 <1 <1 Nickel ppm ASTM D5185m >20 <1 <1 0 0 Silver ppm ASTM D5185m >3 <1 0 0 0 Lead ppm ASTM D5185m >30 <1 0 0 0 Vanadium ppm ASTM D5185m >330 <1 0 0 Vanadium ppm ASTM D5185m >30 <1 <1 0 0 Vanadium ppm ASTM D5185m >20 6 4 5 0 1 1 0 0 Vanadium ppm ASTM D5185m >20 3 4 4 5 0 5 </th <th>Filter Age</th> <th>mls</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Filter Age	mls	Client Info		0	0	0
Sample Status ABNORMAL SEVERE NORMAL Iron ppm ASTM D5185m<>100 8 12 25 Chromium ppm ASTM D5185m<>20 <1 <1 <1 Nickel ppm ASTM D5185m >20 <1 <1 0 0 Titanium ppm ASTM D5185m >20 6 5 10 Lead ppm ASTM D5185m >33 <1 0 0 Copper ppm ASTM D5185m >20 6 5 10 Lead ppm ASTM D5185m >330 <1 3 0 Tin ppm ASTM D5185m >15 <1 0 0 Vanadium ppm ASTM D5185m >20 3 4 4 Vellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >20 3 4 4 Fuel %	-		Client Info		Not Changd	Not Changd	Not Chango
Sample Status ABNORMAL SEVERE NORMAL Iron ppm ASTM D5185m >100 8 12 25 Chromium ppm ASTM D5185m >20 <1 <11 <1 Nickel ppm ASTM D5185m >3 <1 0 0 Titanium ppm ASTM D5185m >3 <1 0 0 Silver ppm ASTM D5185m >20 6 5 10 Lead ppm ASTM D5185m >20 6 5 10 Copper ppm ASTM D5185m >30 <1 3 0 Tin ppm ASTM D5185m >15 <1 0 0 Vanadium ppm ASTM D5185m >15 <1 0 0 Vanadium ppm ASTM D5185m >20 3 4 4 Fellow Metal scalar<'tvisual NONE NONE NONE NONE Silic	Filter Changed		Client Info		Not Changd	Not Changd	Not Change
Iron ppm ASTM D5185m >100 8 112 25 Chromium ppm ASTM D5185m >20 <1 <1 <1 Nickel ppm ASTM D5185m >20 <1 0 0 Titanium ppm ASTM D5185m >3 <1 0 0 Aluminum ppm ASTM D5185m >20 6 5 10 Lead ppm ASTM D5185m >40 <1 0 0 Copper ppm ASTM D5185m >40 <1 0 0 Vanadium ppm ASTM D5185m >40 <1 0 0 Vanadium ppm ASTM D5185m >1 <1 0 0 Vanadium ppm ASTM D5185m >20 3 4 4 Vellow Metal scalar *Visual NONE NONE NONE NONE Silicon pp ASTM D7624 20 9.1	Sample Status				-	SEVERE	NORMAL
Chromium ppm ASTM D5185m >20 <1							
Nickel ppm ASTM D5185m >4 <1	Iron	ppm	ASTM D5185m	>100	8	12	25
Titanium ppm ASTM D5185m <1	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Silver ppm ASTM D5185m >3 <1	Nickel	ppm	ASTM D5185m	>4	<1	0	0
Aluminum ppm ASTM D5185m >20 6 5 10 Lead ppm ASTM D5185m >40 <1 0 0 Copper ppm ASTM D5185m >330 <1 3 0 Tin ppm ASTM D5185m >15 <1 0 0 Vanadium ppm ASTM D5185m >15 <1 0 0 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Silicon ppm ASTM D5185m<>20 3 4 4 Fuel % ASTM D5185m<>20 3 4 4 Fuel % ASTM D5185m<>20 3 0.5 0.7 1.1 Water WC Method >0.2 NEG NEG NEG NEG Sold ation Abs/imm 'ASTM D7644<>3 0.5 0.7 1.1	Titanium	ppm	ASTM D5185m		<1	0	0
Lead ppm ASTM D5185m >40 <1	Silver	ppm	ASTM D5185m	>3	<1	0	0
Copper ppm ASTM D5185m >330 <1	Aluminum	ppm	ASTM D5185m	>20	6	5	10
Tin ppm ASTM D5185m >15 <1	Lead	ppm	ASTM D5185m	>40	<1	0	0
Vanadium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>330	<1	3	0
White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 3 4 4 Fuel % ASTM D5185m >20 3 4 4 Fuel % ASTM D5185m >20 3 4 4 Glycol WC Method >0.2 NEG NEG NEG Soto % % *ASTM D7624 >20 9.1 10.4 12.0 Sulfation Abs/.tmm<*ASTM D715 >30 18.4 19.2 22.8 Silt scalar *Visual NONE NONE NONE NON Debris scalar *Visual NONE NONE NONE NON Appearance scalar *Visual NORL NORML NORML NORML Odor scalar *Visual <th>Tin</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>15</th> <th><1</th> <th>0</th> <th>0</th>	Tin	ppm	ASTM D5185m	>15	<1	0	0
Yellow Metal scalar 'Visual NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 3 4 4 Fuel % ASTM D5185m >20 3 4 4 Fuel % ASTM D5185m >20 3 4 4 Fuel % ASTM D5185m >20 3 4 4 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 9.1 10.4 12.0 Sulfation Abs/cm< 'ASTM D7624 >20 9.1 10.4 12.0 Sulfation Abs/lmm 'ASTM D715 >30 18.4 19.2 22.8 Silt scalar 'Visual NONE NONE NONE NON Debris scalar 'Visual NOR NORM NORM NORM NORM Appearance scalar 'Visual NOR NORM NORM	Vanadium	ppm	ASTM D5185m		<1	<1	0
Silicon ppm ASTM D5185m >25 6 4 5 Potassium ppm ASTM D5185m >20 3 4 4 Fuel % ASTM D5185m >20 3 4 4 Fuel % ASTM D5185m >20 3 4 4 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG Soot % % *ASTM D7844 >3 0.5 0.7 1.1 Nitration Abs/.mm *ASTM D7624 >20 9.1 10.4 12.0 Sulfation Abs/.mm *ASTM D7145 >30 18.4 19.2 22.8 Silt scalar *Visual NONE NONE NONE NON Debris scalar *Visual NORE NORML NORML NORML Ador scalar *Visual NORH NORML NORML	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 3 4 4 Fuel % ASTM D3524 >5 ▲ 5.1 ▲ 9.2 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG Soot % % *ASTM D7844 >3 0.5 0.7 1.1 Nitration Abs/cm<*ASTM D7624 >20 9.1 10.4 12.0 Sulfation Abs/.1mm<*ASTM D715 >30 18.4 19.2 22.8 Silt scalar *Visual NONE NONE NON NON Debris scalar *Visual NONE NONE NONE NON Appearance scalar *Visual NORL NORML NORML NORH NORH Odor scalar *Visual NORML NORML NORML NORH Mapearance scalar *Visual NORH NORML <th>Yellow Metal</th> <th>scalar</th> <th>*Visual</th> <th>NONE</th> <th>NONE</th> <th>NONE</th> <th>NONE</th>	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 3 4 4 Fuel % ASTM D3524 >5 ▲ 5.1 ▲ 9.2 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG Soot % % *ASTM D7844 >3 0.5 0.7 1.1 Nitration Abs/cm *ASTM D7624 >20 9.1 10.4 12.0 Sulfation Abs/.1mm *ASTM D715 >30 18.4 19.2 22.8 Silt scalar *Visual NONE NONE NONE NON Debris scalar *Visual NONE NONE NONE NON Appearance scalar *Visual NORIL NORML NORIL NORIL Odor scalar *Visual NORIL NORML NORIL NORIL Glycol scalar *Visual NORIL							
Fuel % ASTM D3524 >5 ▲ 5.1 ▲ 9.2 <1.0		ppm			-		
Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG NEG Soot % % *ASTM D7844 >3 0.5 0.7 1.1 Nitration Abs/cm *ASTM D7624 >20 9.1 10.4 12.0 Sulfation Abs/cm *ASTM D7624 >20 9.1 10.4 12.0 Sulfation Abs/cm *ASTM D7624 >20 9.1 10.4 12.0 Sulfation Abs/cm *ASTM D7614 >30 18.4 19.2 22.8 Silt scalar *Visual NONE NONE NON NON Debris scalar *Visual NOR NORE NON NON Appearance scalar *Visual NORM NORML NORML NORM Odor scalar *Visual NOR NORML NORM NOR Boron ppm ASTM D5185m 158	Potassium	ppm	ASTM D5185m	>20	3	4	4
Glycol WC Method NEG NEG NEG Soot % % *ASTM D7844 >3 0.5 0.7 1.1 Nitration Abs/cm *ASTM D7624 >20 9.1 10.4 12.0 Sulfation Abs/.tmm *ASTM D7624 >20 9.1 10.4 12.0 Sulfation Abs/.tmm *ASTM D7644 >30 18.4 19.2 22.8 Silt scalar *Visual NONE NONE NONE NON Debris scalar *Visual NONE NONE NONE NON Sand/Dirt scalar *Visual NOR NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG NEG Sodium ppm ASTM D5185m >158 2 1 3 Boron ppm </th <th>Fuel</th> <th>%</th> <th>ASTM D3524</th> <th>>5</th> <th>4 5.1</th> <th>▲ 9.2</th> <th><1.0</th>	Fuel	%	ASTM D3524	>5	4 5.1	▲ 9.2	<1.0
Soot % % *ASTM D7844 >3 0.5 0.7 1.1 Nitration Abs/cm *ASTM D7624 >20 9.1 10.4 12.0 Sulfation Abs/.tmm *ASTM D7624 >20 9.1 10.4 12.0 Sulfation Abs/.tmm *ASTM D7415 >30 18.4 19.2 22.8 Silt scalar *Visual NONE NONE NONE NON Debris scalar *Visual NONE NONE NONE NON Sand/Dirt scalar *Visual NORML NORML NORML NOR Appearance scalar *Visual NORML NORML NORML NORI Odor scalar *Visual NORM NORML NORI NORI Emulsified Water scalar *Visual >0.2 NEG NEG NEG Sodium ppm ASTM D5185m 250 93 23 15 Baron <t< th=""><th>Water</th><th></th><th>WC Method</th><th>>0.2</th><th>NEG</th><th>NEG</th><th>NEG</th></t<>	Water		WC Method	>0.2	NEG	NEG	NEG
Nitration Abs/cm *ASTM D7624 >20 9.1 10.4 12.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 19.2 22.8 Silt scalar *Visual NONE NONE NONE NON Debris scalar *Visual NONE NONE NONE NON Sand/Dirt scalar *Visual NONE NONE NONE NON Appearance scalar *Visual NORML NORML NORML NORML NOR Odor scalar *Visual NORML NORML NORML NOR Emulsified Water scalar *Visual >0.2 NEG NEG NEG Sodium ppm ASTM D5185m 250 93 23 15 Barium ppm ASTM D5185m 100 0 0 0 Molybdenum ppm ASTM D5185m 100 92 147 56 Calcium	Glycol		WC Method		NEG	NEG	NEG
Sulfation Abs/.1mm *ASTM D7415 >30 18.4 19.2 22.8 Silt scalar *Visual NONE NONE NONE NON Debris scalar *Visual NONE NONE NONE NON Sand/Dirt scalar *Visual NONE NONE NONE NON Appearance scalar *Visual NORML NORML NORML NORM NOR Odor scalar *Visual NORML NORML NORML NOR NOR Emulsified Water scalar *Visual >0.2 NEG NEG NEG Sodium ppm ASTM D5185m 250 93 23 15 Barium ppm ASTM D5185m 100 0 0 0 Molybdenum ppm ASTM D5185m 100 90 75 77 Magnesium ppm ASTM D5185m 100 90 2028 147 56	Soot %	%	*ASTM D7844	>3	0.5	0.7	1.1
Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONSand/Dirtscalar*VisualNONENONENONENONAppearancescalar*VisualNORMLNORMLNORMLNORMLNOROdorscalar*VisualNORMLNORMLNORMLNORMLNOREmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m>158213BoronppmASTM D5185m250932315BariumppmASTM D5185m100000MolybdenumppmASTM D5185m100907577ManganeseppmASTM D5185m4509214756CalciumppmASTM D5185m11501080940929ZincppmASTM D5185m13501215111071192SulfurppmASTM D5185m4250401532804104OxidationAbs/1mm*ASTM D5185m42506.56.84.9	Nitration	Abs/cm		>20	-		12.0
Debrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m>158213BoronppmASTM D5185m250932315BariumppmASTM D5185m100000MolybdenumppmASTM D5185m100907577ManganeseppmASTM D5185m4509214756CalciumppmASTM D5185m11501080940929ZincppmASTM D5185m1350121511071192SulfurppmASTM D5185m4250401532804104OxidationAbs/1mm*ASTM D5145m42506.56.84.9	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	19.2	22.8
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m>158213BoronppmASTM D5185m250932315BariumppmASTM D5185m100000MolybdenumppmASTM D5185m100907577ManganeseppmASTM D5185m4509214756CalciumppmASTM D5185m3000202818852191PhosphorusppmASTM D5185m1350121511071192SulfurppmASTM D5185m4250401532804104OxidationAbs/1mm*ASTM D7414>2514.115.118.0Base Number (BN)mg KOHgASTM D28968.56.56.84.9	Silt	scalar			-		NONE
Appearance scalar *Visual NORML NORM NORM NORM NORM NORM NORM NORM NORM NORM	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG NEG NEG Sodium ppm ASTM D5185m >158 2 1 3 Boron ppm ASTM D5185m 250 93 23 15 Barium ppm ASTM D5185m 10 0 0 0 Molybdenum ppm ASTM D5185m 100 90 75 77 Manganese ppm ASTM D5185m 450 92 147 56 Calcium ppm ASTM D5185m 3000 2028 1885 2191 Phosphorus ppm ASTM D5185m 1350 1215 1107 1192 Sulfur ppm ASTM D5185m 4250 4015 3280 4104 Oxidation Abs/.1mm *ASTM D286 8.5 6.5 6.8 4.9	Sand/Dirt	scalar			-	NONE	NONE
Emulsified Water scalar *Visual >0.2 NEG NEG NEG Sodium ppm ASTM D5185m >158 2 1 3 Boron ppm ASTM D5185m 250 93 23 15 Barium ppm ASTM D5185m 10 0 0 0 Molybdenum ppm ASTM D5185m 100 90 75 77 Manganese ppm ASTM D5185m 450 92 147 56 Calcium ppm ASTM D5185m 3000 2028 1885 2191 Phosphorus ppm ASTM D5185m 1350 1215 1107 1192 Sulfur ppm ASTM D5185m 1350 1215 3280 4104 Oxidation Abs/.1mm *ASTM D5185m 4250 4015 3280 4104 Oxidation Mb//lim *ASTM D2896 8.5 6.5 6.8 4.9							NORML
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Boron ppm ASTM D5185m 250 93 23 15 Barium ppm ASTM D5185m 10 0 0 0 Molybdenum ppm ASTM D5185m 100 90 75 77 Manganese ppm ASTM D5185m 100 90 75 77 Magnesium ppm ASTM D5185m 100 92 147 56 Calcium ppm ASTM D5185m 3000 2028 1885 2191 Phosphorus ppm ASTM D5185m 1150 1080 940 929 Zinc ppm ASTM D5185m 1350 1215 1107 1192 Sulfur ppm ASTM D5185m 4250 4015 3280 4104 Oxidation Abs/.1mm<*ASTM D7414<>25 14.1 15.1 18.0 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.5 6.8 4.9	Sodium	nom	ACTM DE10E~	150	2	1	2
Barium ppm ASTM D5185m 10 0 0 0 Molybdenum ppm ASTM D5185m 100 90 75 77 Manganese ppm ASTM D5185m 100 90 75 77 Magnesium ppm ASTM D5185m 100 90 75 77 Magnesium ppm ASTM D5185m 100 92 147 56 Calcium ppm ASTM D5185m 3000 2028 1885 2191 Phosphorus ppm ASTM D5185m 1150 1080 940 929 Zinc ppm ASTM D5185m 1350 1215 1107 1192 Sulfur ppm ASTM D5185m 4250 4015 3280 4104 Oxidation Abs/.1mm<*ASTM D7414<>25 14.1 15.1 18.0 Base Number (BN) mg KOHg ASTM D2896 8.5 6.5 6.8 4.9	_						
Molybdenum ppm ASTM D5185m 100 90 75 77 Manganese ppm ASTM D5185m 100 90 <1 <1 <1 Magnesium ppm ASTM D5185m 450 92 147 56 Calcium ppm ASTM D5185m 3000 2028 1885 2191 Phosphorus ppm ASTM D5185m 1150 1080 940 929 Zinc ppm ASTM D5185m 1350 1215 1107 1192 Sulfur ppm ASTM D5185m 4250 4015 3280 4104 Oxidation Abs/.1mm *ASTM D7414<>25 14.1 15.1 18.0 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.5 6.8 4.9							
Manganese ppm ASTM D5185m <1							
Magnesium ppm ASTM D5185m 450 92 147 56 Calcium ppm ASTM D5185m 3000 2028 1885 2191 Phosphorus ppm ASTM D5185m 1150 1080 940 929 Zinc ppm ASTM D5185m 1350 1215 1107 1192 Sulfur ppm ASTM D5185m 4250 4015 3280 4104 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 15.1 18.0 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.5 6.8 4.9	-			100			
Calcium ppm ASTM D5185m 3000 2028 1885 2191 Phosphorus ppm ASTM D5185m 1150 1080 940 929 Zinc ppm ASTM D5185m 1350 1215 1107 1192 Sulfur ppm ASTM D5185m 4250 4015 3280 4104 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 15.1 18.0 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.5 6.8 4.9	-			450			
Phosphorus ppm ASTM D5185m 1150 1080 940 929 Zinc ppm ASTM D5185m 1350 1215 1107 1192 Sulfur ppm ASTM D5185m 4250 4015 3280 4104 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 15.1 18.0 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.5 6.8 4.9	0						
Zinc ppm ASTM D5185m 1350 1215 1107 1192 Sulfur ppm ASTM D5185m 4250 4015 3280 4104 Oxidation Abs/.1mm *ASTM D7144 >25 14.1 15.1 18.0 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.5 6.8 4.9							
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Oxidation Abs/.1mm *ASTM D7414 >25 14.1 15.1 18.0 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.5 6.8 4.9							
Base Number (BN) mg KOH/g ASTM D2896 8.5 6.5 6.8 4.9							
VISC @ IUU°C CST ASIM D445 14.4 (12.5 / A 11.5 13.2							
	Visc @ 100°C	cSt	ASTM D445	14.4	12.5	1 1.5	13.2



 Vertex construer
 Unique Number
 : 11045831
 Diagnosed
 : 28 May 2024 - Wes Davis

 Certificate 12367
 Test Package
 : MOB 1 (Additional Tests: PercentFuel, TBN)
 C

 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)

Report Id: WCPRAL [WUSCAR] 06189079 (Generated: 05/28/2024 10:38:29) Rev: 1

T: (919)856-8076 *rule (JCGM 106:2012)* F: x: Contact/Location: DEVIN WEBER - WCPRAL Page 2 of 2

Contact: DEVIN WEBER

dweber@wcpss.net