

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 7826M

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

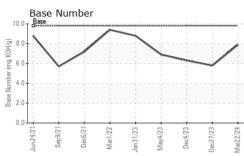
Fluid Condition

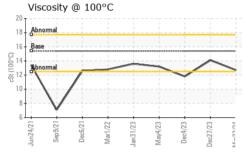
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Date Client Info 22 Mar 2024 27 Dec 2023 04 Dec 2023 Machine Age hrs Client Info 16322 0 15526 Dil Age hrs Client Info 600 0 14155 Dil Changed Client Info Changed Changed Changed ATTENTION CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 1.9 Water WC Method >0.2 NEG NEG NEG Wear WC Method >0.2 NEG NEG NEG Wickel ppm ASTM 05185m >100 29 43 9 Chromium ppm ASTM 05185m >20 2 1 <1 1 Nickel ppm ASTM 05185m >3 0 0 0 0 Silver ppm ASTM 05185m >30 2 1 <1 1 <	SAMPLE INFORM	MATION	method	limit/base	current		history2
Machine Age hrs Client Info 16322 0 15526 Oil Age hrs Client Info 600 0 14155 Oil Age Hrs Client Info 600 0 14155 Sample Status Imit/base Current NoRMAL NORMAL ATTENTION CONTAMINATION method Imit/base current history1 history2 Fuel WC Method >0 41.0 1.9 NEG NEG NEG Water WC Method >0.2 NEG NEG NEG NEG WeAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185m<>20 2 1 1 0 Nickel ppm ASTM D5185m 20 2 7 1 1 Auminum ppm ASTM D5185m 20 2 7 1 1 Lead ppm ASTM D5185m 30 2 <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>GFL0108863</th> <th>GFL0105816</th> <th>GFL0101440</th>	Sample Number		Client Info		GFL0108863	GFL0105816	GFL0101440
Oil Age hrs Client Info 600 0 14155 Oil Changed Client Info Changed Vistor	Sample Date		Client Info		22 Mar 2024	27 Dec 2023	04 Dec 2023
Oil Changed Sample Status Client Info Changed NORMAL Changed NORMAL Changed ATTENTION CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 1.9 Water WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 29 43 9 Chromium ppm ASTM D5185m >20 2 1 <1 Nickel ppm ASTM D5185m >20 2 7 1 Silver ppm ASTM D5185m >20 2 7 1 Lead ppm ASTM D5185m >20 2 1 <1 Copper ppm ASTM D5185m >20 1 0 Vanadium ppm ASTM D5185m 0 1 0 Copper </th <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>16322</th> <th>0</th> <th>15526</th>	Machine Age	hrs	Client Info		16322	0	15526
Sample Status NORMAL NORMAL NORMAL ATTENTION CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 1.9 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG NEG VeAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 2 1 <1 0 Nickel ppm ASTM D5185m >20 2 7 1 1 0 Silver ppm ASTM D5185m >30 0 0 0 0 Capper ppm ASTM D5185m >30 1 0 0 0 ADDTIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 -1	Oil Age	hrs	Client Info		600	0	14155
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5. <1.0 <1.0 1.9 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 29 43 9 Chromium ppm ASTM D5185m >20 2 1 <1 0 Titranium ppm ASTM D5185m >20 2 7 1 Lead 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< th=""><th>Oil Changed</th><th></th><th>Client Info</th><th></th><th>Changed</th><th>Changed</th><th>Changed</th></t<>	Oil Changed		Client Info		Changed	Changed	Changed
Fuel WC Method >5 <1.0	Sample Status				NORMAL	NORMAL	ATTENTION
Water WC Method >0.2 NEG NEG NEG NEG Glycol WC Method Imit/base current history1 history2 Iron ppm ASTM D5185m >100 29 43 9 Chromium ppm ASTM D5185m >20 2 1 <1 Nickel ppm ASTM D5185m >20 2 1 <1 0 Silver ppm ASTM D5185m >20 2 7 1 1 0 Copper ppm ASTM D5185m >20 2 7 1 1 0 Cadmiunum ppm ASTM D5185m >20 2 1 <1 0 Cadmium ppm ASTM D5185m >20 2 1 <1 0 Cadmium ppm ASTM D5185m 0 1 0 0 0 ASTM D5185m 0 <1 <1 0 0 0 <td< th=""><th>CONTAMINAT</th><th>ION</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></td<>	CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 29 43 9 Chromium ppm ASTM D5185m >20 2 1 <1 Nickel ppm ASTM D5185m >20 2 1 0 Silver ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Copper ppm ASTM D5185m >3 0 0 0 Cadmium ppm ASTM D5185m >330 2 1 <1 Cadmium ppm ASTM D5185m 0 1 0 0 ADDITVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1 2 0 <td< th=""><th>Fuel</th><th></th><th>WC Method</th><th>>5</th><th><1.0</th><th><1.0</th><th>1.9</th></td<>	Fuel		WC Method	>5	<1.0	<1.0	1.9
WEAR METALS method limit/base current history1 history2 Irron ppm ASTM D5185m >100 29 43 9 Chromium ppm ASTM D5185m >20 2 1 <1 0 Nickel ppm ASTM D5185m >20 2 1 <1 0 Silver ppm ASTM D5185m >20 2 7 1 1 Lead ppm ASTM D5185m >20 2 7 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td< th=""><th>Water</th><th></th><th>WC Method</th><th>>0.2</th><th>NEG</th><th>NEG</th><th>NEG</th></td<>	Water		WC Method	>0.2	NEG	NEG	NEG
Iron ppm ASTM D5185m >100 29 43 9 Chromium ppm ASTM D5185m >20 2 1 <1 Nickel ppm ASTM D5185m >4 <1 <1 0 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >30 2 1 <1 Lead ppm ASTM D5185m >40 1 1 0 Copper ppm ASTM D5185m >15 0 1 0 Vanadium ppm ASTM D5185m 0 2 1 <1 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITVES method imit/base current history1 history2 Boron ppm ASTM D5185m 0 0 1 0 <th>Glycol</th> <th></th> <th>WC Method</th> <th></th> <th>NEG</th> <th>NEG</th> <th>NEG</th>	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >20 2 1 <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >4 <1	Iron	ppm	ASTM D5185m	>100	29	43	9
Titanium ppm ASTM D5185m 0 <1	Chromium		ASTM D5185m	>20	2	1	<1
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >20 2 7 1 Lead ppm ASTM D5185m >20 2 7 1 Lead ppm ASTM D5185m >330 2 1 -1 Copper ppm ASTM D5185m >330 2 1 -1 Vanadium ppm ASTM D5185m >15 0 1 0 Vanadium ppm ASTM D5185m 0 <1	Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Aluminum ppm ASTM D5185m >20 2 7 1 Lead ppm ASTM D5185m >40 1 1 0 Copper ppm ASTM D5185m >330 2 1 <1 Tin ppm ASTM D5185m >15 0 1 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1 2 0 Barium ppm ASTM D5185m 0 <1 <1 0 2 Magnese ppm ASTM D5185m 0 <1 <1 0 2 Magnesium ppm ASTM D5185m 1010 933 1112 633 Calcium ppm ASTM D5185m 1270	Titanium	ppm	ASTM D5185m		0	<1	0
Lead ppm ASTM D5185m >40 1 1 0 Copper ppm ASTM D5185m >330 2 1 <1 Tin ppm ASTM D5185m >15 0 1 0 Vanadium ppm ASTM D5185m >15 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1 2 0 Barium ppm ASTM D5185m 0 <1 <1 0 2 Maganese ppm ASTM D5185m 0 <1 <1 0 0 Calcium ppm ASTM D5185m 0 <1 <1 0 0 Calcium ppm ASTM D5185m 1010 933 1112 633 Calcium ppm ASTM D5185m <t< th=""><th>Silver</th><th>ppm</th><th>ASTM D5185m</th><th>>3</th><th>0</th><th>0</th><th>0</th></t<>	Silver	ppm	ASTM D5185m	>3	0	0	0
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Tin ppm ASTM D5185m >15 0 1 0 Vanadium ppm ASTM D5185m <1 0 0 0 Cadmium ppm ASTM D5185m 0 1 0 0 Cadmium ppm ASTM D5185m 0 <1 2 0 Boron ppm ASTM D5185m 0 <1	Lead	ppm	ASTM D5185m	>40	1	1	0
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Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1	Tin	ppm	ASTM D5185m	>15	0	1	0
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1 2 0 Barium ppm ASTM D5185m 0 0 0 2 Molybdenum ppm ASTM D5185m 60 56 66 42 Manganese ppm ASTM D5185m 0 <1 <1 0 Magnesium ppm ASTM D5185m 1010 933 1112 633 Calcium ppm ASTM D5185m 1070 1055 1242 772 Phosphorus ppm ASTM D5185m 1270 1177 1427 959 Sulfur ppm ASTM D5185m 2060 3378 3214 2616 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 6 2 Sodium ppm ASTM D5185m >20 <th>Vanadium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th><1</th> <th>0</th> <th>0</th>	Vanadium	ppm	ASTM D5185m		<1	0	0
Boron ppm ASTM D5185m 0 <1	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 0 0 2 Molybdenum ppm ASTM D5185m 60 56 66 42 Manganese ppm ASTM D5185m 0 <1 <1 0 Magnesium ppm ASTM D5185m 1010 933 1112 633 Calcium ppm ASTM D5185m 1010 933 1112 633 Calcium ppm ASTM D5185m 1070 1055 1242 772 Phosphorus ppm ASTM D5185m 1070 1177 1427 959 Sulfur ppm ASTM D5185m 1270 1177 1427 959 Sulfur ppm ASTM D5185m 2060 3378 3214 2616 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 0 3 2 Potassium ppm ASTM D5185m							
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Magnesium ppm ASTM D5185m 1010 933 1112 633 Calcium ppm ASTM D5185m 1070 1055 1242 772 Phosphorus ppm ASTM D5185m 1150 999 1178 744 Zinc ppm ASTM D5185m 1270 1177 1427 959 Sulfur ppm ASTM D5185m 2060 3378 3214 2616 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 6 2 Sodium ppm ASTM D5185m >20 0 3 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 1.1 0.5 Nitration Abs/cm *ASTM D7624 >20 10.7 12.0 5.9 Sulfation Abs/.1mm *ASTM D741		ppm	ASTM D5185m	0	<1	2	0
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Phosphorus ppm ASTM D5185m 1150 999 1178 744 Zinc ppm ASTM D5185m 1270 1177 1427 959 Sulfur ppm ASTM D5185m 2060 3378 3214 2616 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 6 2 Sodium ppm ASTM D5185m >25 3 6 2 Sodium ppm ASTM D5185m >20 0 3 26 <1	Boron Barium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	<1 0 56	2 0 66	0 2 42
Zinc ppm ASTM D5185m 1270 1177 1427 959 Sulfur ppm ASTM D5185m 2060 3378 3214 2616 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 6 2 Sodium ppm ASTM D5185m >25 3 6 2 Sodium ppm ASTM D5185m >20 0 3 26 <1 Potassium ppm ASTM D5185m >20 0 3 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 1.1 0.5 Nitration Abs/cm *ASTM D7624 >20 10.7 12.0 5.9 Sulfation Abs/.1mm *ASTM D7415 >30 20.8 24.5 19.3 FLUID DEGRADATION method	Boron Barium Molybdenum	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0	<1 0 56 <1	2 0 66 <1	0 2 42 0
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CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>25362SodiumppmASTM D5185m326<1PotassiumppmASTM D5185m326<1PotassiumppmASTM D5185m>20032INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>30.81.10.5NitrationAbs/cm*ASTM D7624>2010.712.05.9SulfationAbs/.1mm*ASTM D7415>3020.824.519.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070	<1 0 56 <1 933 1055	2 0 66 <1 1112 1242	0 2 42 0 633 772
Silicon ppm ASTM D5185m >25 3 6 2 Sodium ppm ASTM D5185m >25 3 26 <1 Potassium ppm ASTM D5185m >20 0 3 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 1.1 0.5 Nitration Abs/cm *ASTM D7624 >20 10.7 12.0 5.9 Sulfation Abs/.1mm *ASTM D7415 >30 20.8 24.5 19.3 FLUID DEGRADATION method limit/base current history1 history2	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150	<1 0 56 <1 933 1055 999	2 0 66 <1 1112 1242 1178	0 2 42 0 633 772 744
Sodium ppm ASTM D5185m 3 26 <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270	<1 0 56 <1 933 1055 999 1177	2 0 66 <1 1112 1242 1178 1427	0 2 42 0 633 772 744 959
PotassiumppmASTM D5185m>20032INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>30.81.10.5NitrationAbs/cm*ASTM D7624>2010.712.05.9SulfationAbs/lmm*ASTM D7415>3020.824.519.3FLUID DEGRADATION methodlimit/basecurrenthistory1history2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060	<1 0 56 <1 933 1055 999 1177 3378	2 0 66 <1 1112 1242 1178 1427 3214	0 2 42 0 633 772 744 959 2616
INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>30.81.10.5NitrationAbs/cm*ASTM D7624>2010.712.05.9SulfationAbs/lmm*ASTM D7415>3020.824.519.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060	<1 0 56 <1 933 1055 999 1177 3378 current	2 0 66 <1 1112 1242 1178 1427 3214 history1	0 2 42 0 633 772 744 959 2616 history2
Soot % % *ASTM D7844 >3 0.8 1.1 0.5 Nitration Abs/cm *ASTM D7624 >20 10.7 12.0 5.9 Sulfation Abs/.1mm *ASTM D7415 >30 20.8 24.5 19.3 FLUID DEGRADATION method limit/base current history1 history2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060	<1 0 56 <1 933 1055 999 1177 3378 current 3	2 0 66 <1 1112 1242 1178 1427 3214 history1 6	0 2 42 0 633 772 744 959 2616 history2 2
NitrationAbs/cm*ASTM D7624>2010.712.05.9SulfationAbs/.1mm*ASTM D7415>3020.824.519.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base	<1 0 56 <1 933 1055 999 1177 3378 current 3 3 3	2 0 66 <1 1112 1242 1178 1427 3214 history1 6 26	0 2 42 0 633 772 744 959 2616 history2 2 2 <1
Sulfation Abs/.1mm *ASTM D7415 >30 20.8 24.5 19.3 FLUID DEGRADATION method limit/base current history1 history2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 limit/base >25	<1 0 56 <1 933 1055 999 1177 3378 current 3 3 0	2 0 66 <1 1112 1242 1178 1427 3214 history1 6 26 3	0 2 42 0 633 772 744 959 2616 history2 2 2 <1 2
FLUID DEGRADATION method limit/base current history1 history2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 2060 225 >25	<1 0 56 <1 933 1055 999 1177 3378 current 3 3 0 current	2 0 66 <1 1112 1242 1178 1427 3214 history1 6 26 3 3 history1	0 2 42 0 633 772 744 959 2616 history2 2 2 <1 2 2 1 2 1 2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 2060 225 >25 >20 Limit/base >20	<1 0 56 <1 933 1055 999 1177 3378 <u>current</u> 3 3 0 <u>current</u> 0.8	2 0 66 <1 1112 1242 1178 1427 3214 history1 6 26 3 history1 1.1	0 2 42 0 633 772 744 959 2616 history2 2 2 <1 2 2 <1 2 1 2 5
Oxidation Abs/1mm *ASTM D7414 ~25 18 0 22 5 13 0	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 2060 225 220 220 220 20 20 20 20 20 20 20 20 20	<1 0 56 <1 933 1055 999 1177 3378 current 3 3 0 current 0.8 10.7	2 0 66 <1 1112 1242 1178 1427 3214 history1 6 26 3 <i>history1</i> 1.1 1.2.0	0 2 42 0 633 772 744 959 2616 history2 2 2 <1 2 2 <1 2 2 history2 0.5 5.9
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 2060 225 20 225 20 20 320 33 20 20 20	<1 0 56 <1 933 1055 999 1177 3378 <u>current</u> 3 3 0 <u>current</u> 0.8 10.7 20.8	2 0 66 <1 1112 1242 1178 1427 3214 history1 6 26 3 <u>history1</u> 1.1 1.2.0 24.5	0 2 42 0 633 772 744 959 2616 history2 2 2 <1 2 <1 2 1 2 0.5 5.9 19.3
Base Number (BN) mg KOH/g ASTM D2896 9.8 7.9 5.8 6.3	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 2060 225 20 225 20 20 320 33 20 20 20	<1 0 56 <1 933 1055 999 1177 3378 <u>current</u> 3 3 0 <u>current</u> 0.8 10.7 20.8	2 0 66 <1 1112 1242 1178 1427 3214 history1 6 26 3 <u>history1</u> 1.1 1.2.0 24.5	0 2 42 0 633 772 744 959 2616 history2 2 2 <1 2 <1 2 1 2 0.5 5.9 19.3



OIL ANALYSIS REPORT





		method	limit/base	current	history1	history2
	scalar	*Visual	NONE	NONE	NONE	NONE
	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	scalar	*Visual	NORML	NORML	NORML	NORML
	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	RTIES	method	limit/base	current	history1	history2
	cSt	ASTM D445	15.4	12.7	14.1	11.8
GRAPHS						
Ferrous Alloys						
iron		Λ	1			
chromium						
- nickel						
	1					
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Diagnosed Test Package : FLEET Certificate L2367 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)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Tested

: 26 Mar 2024

: 27 Mar 2024

: 27 Mar 2024 - Wes Davis

GFL Environmental - 415 - Michigan East 6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514 F:

Laboratory

Sample No. : GFL0108863

Lab Number : 06129289

Unique Number : 10943440

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