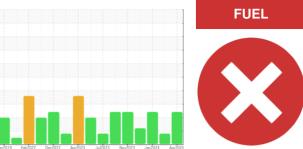


PROBLEM SUMMARY

Sample Rating Trend



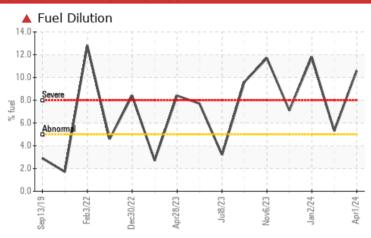
Machine Id

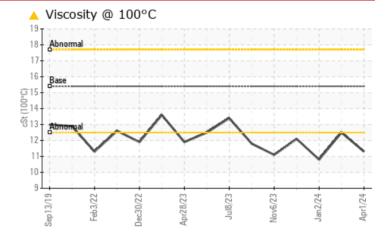
924031-260251

Diesel Engine

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

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	ABNORMAL	SEVERE			
Fuel	%	ASTM D3524	>5	10.6	△ 5.3	▲ 11.8			
Visc @ 100°C	cSt	ASTM D445	15.4	11.3	12.5	<u></u> 10.8			

Customer Id: GFL822 Sample No.: GFL0109191 Lab Number: 06146431 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Resample			?	We recommend an early resample to monitor this condition.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		

HISTORICAL DIAGNOSIS

25 Jan 2024 Diag: Wes Davis

FUEL

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. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. 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.



FUEL



02 Jan 2024 Diag: Wes DavisWe advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



FUEL



06 Dec 2023 Diag: Wes Davis

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. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

924031-260251

Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

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

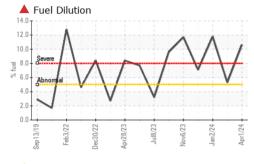
Fluid Condition

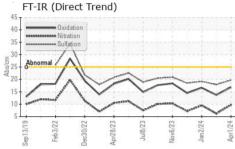
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

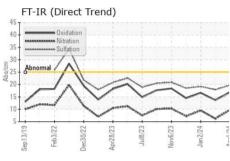
Sample Date Client Info 01 Apr 2024 25 Jan 2024 02 Jan 2024 Machine Age hrs Client Info 15724 15254 5105 Oil Age hrs Client Info 700 300 700 Oil Changed Client Info Changed NA Changed Sample Status Client Info Changed NA Changed Sample Status WC Method SEVERE ABNORMAL SEVERE CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5186m >0.2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 </th <th>GAL)</th> <th></th> <th>Sep2019 Fel</th> <th>52022 Dec2022 Apr20</th> <th>23 Juli2023 Nov2023 Jan 20</th> <th>124 Apr2024</th> <th></th>	GAL)		Sep2019 Fel	52022 Dec2022 Apr20	23 Juli2023 Nov2023 Jan 20	124 Apr2024	
Sample Date	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 15724 15254 5105 Oil Age hrs Client Info 700 300 700 Oil Changed Client Info Changed N/A Changed Sample Status SEVERE ABNORMAL SEVERE CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 12 6 14 Chromium ppm ASTM D5185m >20 <1	Sample Number		Client Info		GFL0109191	GFL0109154	GFL0098328
Oil Age hrs Client Info 700 300 700 Oil Changed Client Info Changed N/A Changed Sample Status Client Info SEVERE ABNORMAL SEVERE CONTAMINATION method Imitibase current history1 history2 Water WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 <1 <1 <1 <1 Chromium ppm ASTM D5185m >3 0 0 <1 0 Chromium ppm ASTM D5185m >40 0 <1 0 <td>Sample Date</td> <td></td> <td>Client Info</td> <td></td> <th>01 Apr 2024</th> <td>25 Jan 2024</td> <td>02 Jan 2024</td>	Sample Date		Client Info		01 Apr 2024	25 Jan 2024	02 Jan 2024
Client Info Changed SEVERE ABNORMAL SEVERE	Machine Age	hrs	Client Info		15724	15254	5105
SEVERE ABNORMAL SEVERE	Oil Age	hrs	Client Info		700	300	700
CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 12 6 14 Chromium ppm ASTM D5185m >20 <1	Oil Changed		Client Info		Changed	N/A	Changed
Water Glycol WC Method WC Method >0.2 NEG NEG NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >10.0 12 6 14 Chromium ppm ASTM D5185m >2.0 <1	Sample Status				SEVERE	ABNORMAL	SEVERE
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 12 6 14 Chromium ppm ASTM D5185m >20 <1	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS	Water		WC Method	>0.2	NEG	NEG	NEG
Iron	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >20 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <td>WEAR METAL</td> <td>.S</td> <td>method</td> <td>limit/base</td> <th>current</th> <td>history1</td> <td>history2</td>	WEAR METAL	.S	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>100	12	6	14
Nickel	Chromium		ASTM D5185m	>20	<1	<1	<1
Titanium	Nickel		ASTM D5185m	>4	<1	<1	0
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >20 3 <1 2 Lead ppm ASTM D5185m >40 0 <1 0 Copper ppm ASTM D5185m >330 0 <1 <1 Tin ppm ASTM D5185m >15 <1 <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 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 1 0 0 ADDITIVES method limit/base current history1 history	Titanium		ASTM D5185m		0	<1	0
Aluminum ppm ASTM D5185m >20 3 <1 2 Lead ppm ASTM D5185m >40 0 <1 0 Copper ppm ASTM D5185m >330 0 <1 <1 0 Vanadium ppm ASTM D5185m >15 <1 <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 1 0 0 Barium ppm ASTM D5185m 0 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 0 0 Manganese ppm ASTM D5185m 010 852 887 826 5 Calcium ppm ASTM D5185m 1070 929 910 864 <tr< td=""><td>Silver</td><td></td><td>ASTM D5185m</td><td>>3</td><th>0</th><td>0</td><td>0</td></tr<>	Silver		ASTM D5185m	>3	0	0	0
Lead ppm ASTM D5185m >40 0 <1 0 Copper ppm ASTM D5185m >330 0 <1 <1 Tin ppm ASTM D5185m >15 <1 <1 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 1 0 0 Barium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 <1 0 Barium ppm ASTM D5185m 0 0 <1 0 Barium ppm ASTM D5185m 1010 852 887 826 Calcium ppm ASTM D5185m 1070 929 910 <	Aluminum		ASTM D5185m	>20	3	<1	2
Copper ppm ASTM D5185m >330 0 <1 <1 <1 <1 O Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 1 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 0 <1	Lead				0	<1	0
Trin	Copper		ASTM D5185m	>330	0	<1	<1
Vanadium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 1 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 0 <1 0 Magnesium ppm ASTM D5185m 0 0 <1 0 Magnesium ppm ASTM D5185m 1010 852 887 826 Calcium ppm ASTM D5185m 1070 929 910 864 Phosphorus ppm ASTM D5185m 1270 1160 1144 1083 Sulfur ppm ASTM D5185m 2060 3297 2814 2512 CONTAMINANTS method limit/base current histor					<1	<1	0
Cadmium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 1 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 60 57 56 55 Manganese ppm ASTM D5185m 0 0 <1	Vanadium		ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 0 1 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 60 57 56 55 Manganese ppm ASTM D5185m 1010 852 887 826 Calcium ppm ASTM D5185m 1070 929 910 864 Phosphorus ppm ASTM D5185m 1150 963 909 906 Zinc ppm ASTM D5185m 1270 1160 1144 1083 Sulfur ppm ASTM D5185m 2060 3297 2814 2512 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 5 3 Sodium ppm ASTM D5185m >20 16 3 1 Fuel % ASTM D5185m >20	Cadmium		ASTM D5185m		0	<1	0
Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 60 57 56 55 Manganese ppm ASTM D5185m 0 0 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 60 57 56 55 Manganese ppm ASTM D5185m 0 0 <1 0 Magnesium ppm ASTM D5185m 1010 852 887 826 Calcium ppm ASTM D5185m 1070 929 910 864 Phosphorus ppm ASTM D5185m 1150 963 909 906 Zinc ppm ASTM D5185m 1270 1160 1144 1083 Sulfur ppm ASTM D5185m 2060 3297 2814 2512 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 5 3 Sodium ppm ASTM D5185m >20 16 3 1 Fuel % ASTM D5185m >20 16 3 1 Fuel % ASTM D5185m <t< td=""><td>Boron</td><td>ppm</td><td>ASTM D5185m</td><td>0</td><th>1</th><td>0</td><td>0</td></t<>	Boron	ppm	ASTM D5185m	0	1	0	0
Manganese ppm ASTM D5185m 0 0 <1 0 Magnesium ppm ASTM D5185m 1010 852 887 826 Calcium ppm ASTM D5185m 1070 929 910 864 Phosphorus ppm ASTM D5185m 1150 963 909 906 Zinc ppm ASTM D5185m 1270 1160 1144 1083 Sulfur ppm ASTM D5185m 2060 3297 2814 2512 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 5 3 Sodium ppm ASTM D5185m >20 16 3 1 Fuel % ASTM D5185m >20 16 3 1 Fuel % ASTM D5185m >20 16 3 1 INFRA-RED method limit/base current <td>Barium</td> <td>ppm</td> <td>ASTM D5185m</td> <td>0</td> <th>0</th> <td>0</td> <td>0</td>	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium ppm ASTM D5185m 1010 852 887 826 Calcium ppm ASTM D5185m 1070 929 910 864 Phosphorus ppm ASTM D5185m 1150 963 909 906 Zinc ppm ASTM D5185m 1270 1160 1144 1083 Sulfur ppm ASTM D5185m 2060 3297 2814 2512 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 5 3 Sodium ppm ASTM D5185m >25 3 5 3 Potassium ppm ASTM D5185m >20 16 3 1 Fuel % ASTM D3524 >5 10.6 5.3 11.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624	Molybdenum	ppm	ASTM D5185m	60	57	56	55
Magnesium ppm ASTM D5185m 1010 852 887 826 Calcium ppm ASTM D5185m 1070 929 910 864 Phosphorus ppm ASTM D5185m 1150 963 909 906 Zinc ppm ASTM D5185m 1270 1160 1144 1083 Sulfur ppm ASTM D5185m 2060 3297 2814 2512 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 5 3 Sodium ppm ASTM D5185m >25 3 5 3 Potassium ppm ASTM D5185m >20 16 3 1 Fuel % ASTM D3524 >5 10.6 5.3 11.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624	Manganese	ppm	ASTM D5185m	0	0	<1	0
Phosphorus ppm ASTM D5185m 1150 963 909 906 Zinc ppm ASTM D5185m 1270 1160 1144 1083 Sulfur ppm ASTM D5185m 2060 3297 2814 2512 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 5 3 Sodium ppm ASTM D5185m >20 16 3 1 Potassium ppm ASTM D5185m >20 16 3 1 Fuel % ASTM D5185m >20 16 3 1 Fuel % ASTM D3524 >5 ▲ 10.6 5.3 ▲ 11.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 9.7 6.2 9.5 Sulfation Abs/.1mm *ASTM D7415	Magnesium		ASTM D5185m	1010	852	887	826
Phosphorus ppm ASTM D5185m 1150 963 909 906 Zinc ppm ASTM D5185m 1270 1160 1144 1083 Sulfur ppm ASTM D5185m 2060 3297 2814 2512 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 5 3 Sodium ppm ASTM D5185m >20 16 3 1 Potassium ppm ASTM D5185m >20 16 3 1 Fuel % ASTM D3524 >5 ▲ 10.6 ▲ 5.3 ▲ 11.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.2 0.5 Nitration Abs/cm *ASTM D7624 >20 9.7 6.2 9.5 Sulfation Abs/.1mm *ASTM D	Calcium	ppm	ASTM D5185m	1070	929	910	864
Sulfur ppm ASTM D5185m 2060 3297 2814 2512 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 5 3 Sodium ppm ASTM D5185m 41 11 37 Potassium ppm ASTM D5185m >20 16 3 1 Fuel % ASTM D3524 >5 ▲ 10.6 ▲ 5.3 ▲ 11.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.2 0.5 Nitration Abs/cm *ASTM D7624 >20 9.7 6.2 9.5 Sulfation Abs/.1mm *ASTM D7415 >30 19.7 17.9 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414	Phosphorus	ppm	ASTM D5185m	1150	963	909	906
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 5 3 Sodium ppm ASTM D5185m 41 11 37 Potassium ppm ASTM D5185m >20 16 3 1 Fuel % ASTM D3524 >5 ▲ 10.6 ▲ 5.3 ▲ 11.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.2 0.5 Nitration Abs/cm *ASTM D7624 >20 9.7 6.2 9.5 Sulfation Abs/.1mm *ASTM D7415 >30 19.7 17.9 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.8 13.7 16.6	Zinc	ppm	ASTM D5185m	1270	1160	1144	1083
Silicon ppm ASTM D5185m >25 3 5 3 Sodium ppm ASTM D5185m 41 11 37 Potassium ppm ASTM D5185m >20 16 3 1 Fuel % ASTM D3524 >5 ▲ 10.6 ▲ 5.3 ▲ 11.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.2 0.5 Nitration Abs/cm *ASTM D7624 >20 9.7 6.2 9.5 Sulfation Abs/.1mm *ASTM D7415 >30 19.7 17.9 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.8 13.7 16.6	Sulfur	ppm	ASTM D5185m	2060	3297	2814	2512
Sodium ppm ASTM D5185m 41 11 37 Potassium ppm ASTM D5185m >20 16 3 1 Fuel % ASTM D3524 >5 ▲ 10.6 ▲ 5.3 ▲ 11.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.2 0.5 Nitration Abs/cm *ASTM D7624 >20 9.7 6.2 9.5 Sulfation Abs/.1mm *ASTM D7415 >30 19.7 17.9 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.8 13.7 16.6	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 16 3 1 Fuel % ASTM D3524 >5 ▲ 10.6 ▲ 5.3 ▲ 11.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.2 0.5 Nitration Abs/cm *ASTM D7624 >20 9.7 6.2 9.5 Sulfation Abs/.1mm *ASTM D7415 >30 19.7 17.9 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.8 13.7 16.6	Silicon	ppm	ASTM D5185m	>25	3	5	3
Fuel % ASTM D3524 >5 ▲ 10.6 ▲ 5.3 ▲ 11.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.2 0.5 Nitration Abs/cm *ASTM D7624 >20 9.7 6.2 9.5 Sulfation Abs/.1mm *ASTM D7415 >30 19.7 17.9 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.8 13.7 16.6	Sodium	ppm	ASTM D5185m		41	11	37
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.2 0.5 Nitration Abs/cm *ASTM D7624 >20 9.7 6.2 9.5 Sulfation Abs/.1mm *ASTM D7415 >30 19.7 17.9 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.8 13.7 16.6	Potassium	ppm	ASTM D5185m	>20	16	3	1
Soot % % *ASTM D7844 >3 0.4 0.2 0.5 Nitration Abs/cm *ASTM D7624 >20 9.7 6.2 9.5 Sulfation Abs/.1mm *ASTM D7415 >30 19.7 17.9 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.8 13.7 16.6	Fuel	%	ASTM D3524	>5	▲ 10.6	▲ 5.3	▲ 11.8
Nitration Abs/cm *ASTM D7624 >20 9.7 6.2 9.5 Sulfation Abs/.1mm *ASTM D7415 >30 19.7 17.9 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.8 13.7 16.6	INFRA-RED		method	limit/base	current	history1	history2
Nitration Abs/cm *ASTM D7624 >20 9.7 6.2 9.5 Sulfation Abs/.1mm *ASTM D7415 >30 19.7 17.9 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.8 13.7 16.6	Soot %	%	*ASTM D7844	>3	0.4	0.2	0.5
Sulfation Abs/.1mm *ASTM D7415 >30 19.7 17.9 19.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.8 13.7 16.6							
Oxidation Abs/.1mm *ASTM D7414 >25 16.8 13.7 16.6	Sulfation						
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	13.7	16.6
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	8.4	7.2

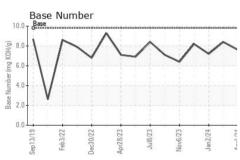


OIL ANALYSIS REPORT





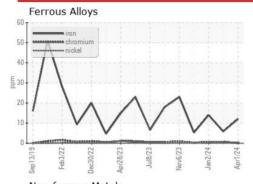


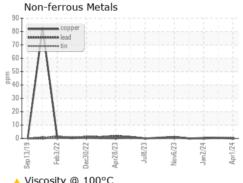


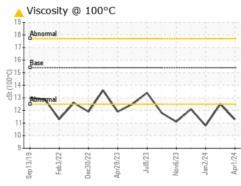
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

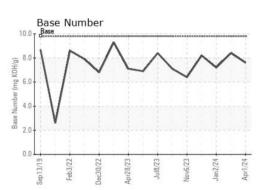
FLUID PROPE	=RIIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	<u> 11.3</u>	12.5	<u> </u>

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06146431 Unique Number : 10976509

: GFL0109191

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

: 11 Apr 2024 **Tested** Diagnosed

: 15 Apr 2024 Test Package : FLEET (Additional Tests: PercentFuel)

: 15 Apr 2024 - Wes Davis

Springfield, MO US 65807 Contact: Dennis Moore dennis.moore@gflenv.com T: (417)403-3641

GFL Environmental - 822 - Springfield Hauling

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)

2120 West Bennett Street