

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id 5650

Component Diesel Engine

Fluid PETRO CANADA DURON HP 15W40 (44 LTR)

### DIAGNOSIS

#### Recommendation

We advise that you check for the source of the coolant leak. 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

Test for glycol is positive. There is a high concentration of glycol present in the oil.

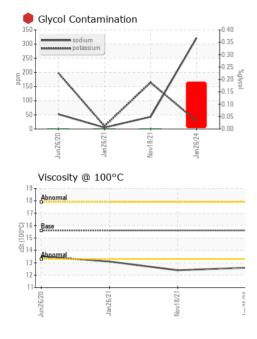
#### Fluid Condition

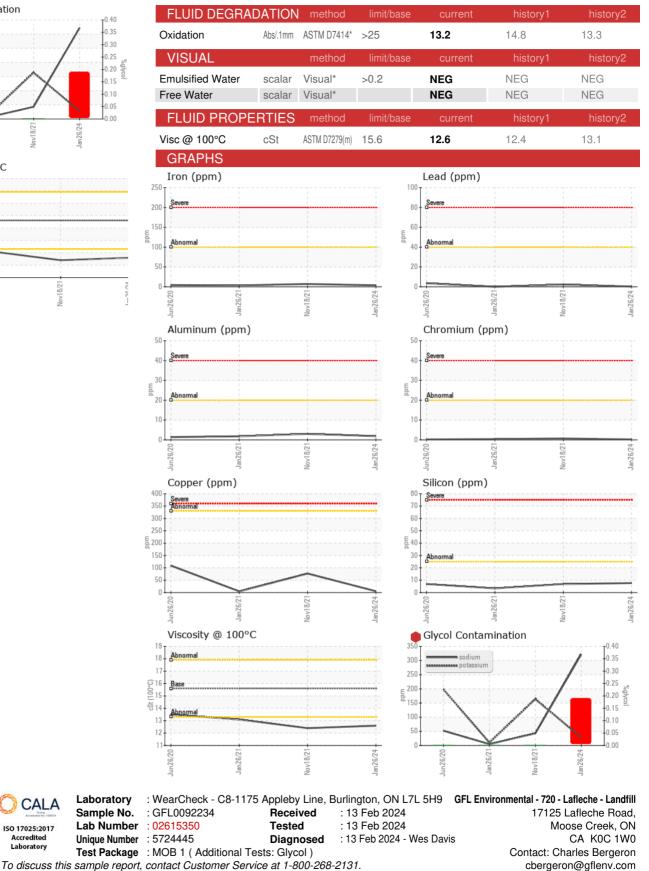
The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION     method     limit/base     current     history1     history2       Sample Number     Client Info     26 Jan 2024     18 Nov 2021     26 Jan 2024     18 Nov 2021     26 Jan 2024       Machine Age     hrs     Client Info     32855     29499     28124       Oil Age     hrs     Client Info     675     500     600       Oil Changed     Client Info     SEVERE     MARGINAL     MARGINAL       CONTAMINATION     method     Imit/base     current     history1     history2       Fuel     WC Method     >5     <1.0     A 3.8     2.8       Water     WC Method     >0.2     NEG     NEG     NEG       Chromium     ppm     ASTM 058600     2.4     1     -1     -1       Nickel     ppm     ASTM 058600     >2.0     <1     <1     -1       Nickel     ppm     ASTM 058600     >3.0     0     0     -1       Nickel     ppm     ASTM 058600     >10     <1     -1			Jun2020 Jan2021 Nov2021 Jan2024					
Sample Date     Client Info     26 Jan 2024     18 Nov 2021     26 Jan 2021       Machine Age     hrs     Client Info     32855     29499     28124       Oil Age     hrs     Client Info     675     500     600       Oil Changed     Client Info     Changed     Changed     Changed       Sample Status     Client Info     Changed     Changed     Changed       SevEre     MARGINAL     MARGINAL     MARGINAL     MARGINAL       CONTAMINATION     method     imit/base     current     history1     history2       Fuel     WC Method     >5.     <1.0     A 3.8     2.8       Water     WC Method     >0.2     NEG     NEG     NEG       Chromium     ppm     ASIM05186m     >20     <1     <1     <1       Nickel     ppm     ASIM05186m     >20     2     3     2        Iron     ppm     ASIM05186m     >20     2     3     2        Silver     ppm	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Machtine Age     hrs     Client Info     32855     29499     28124       Oil Age     irrs     Client Info     675     500     600       Oil Changed     Client Info     Changed     MARGINAL       Valer     WC Method     >50.2     <1.0     A 3.8     A 2.8       Water     WC Method     >0.2     NEG     NEG     NEG       Vickel     ppm     ASIM D5185(m)     >100     4     7     3       Chromium     ppm     ASIM D5185(m)     >40     0     <1     2     0       Silver     ppm     ASIM D5185(m)     >330     5     777     4     1       Lead     ppm     ASIM D5185(m)     >300     <1     2     0       Copper	Sample Number		Client Info		GFL0092234	GFL0030427	GFL0010809	
Oil Age     Inrs     Client Info     675     500     600       Oil Changed     Client Info     Changed     Changed     Changed     Changed     Changed       Sample Status      Imit/base     current     History1     History2       Fuel     WC Method     >5     <1.0     A 3.8     A 2.8       Water     WC Method     >0.2     NEG     NEG     NEG       Wear     WC Method     >0.2     <1     <1     <1.0       Nickel     ppm     ASTM D515(m)     >100     4     7     3       Chromium     ppm     ASTM D515(m)     >20     <1     <1     <1       Nickel     ppm     ASTM D515(m)     >20     2     3     2        Lead     ppm     ASTM D515(m)     >30     0     0     0     0       Copper     ppm     ASTM D515(m)     >330     5     7/7     4       Tian     ppm     ASTM D515(m)     0     <1     0 <	Sample Date		Client Info		26 Jan 2024	18 Nov 2021	26 Jan 2021	
Oil Changed Sample Status     Client Info     Changed SEVERE     Changed MARGINAL     Changed MARGINAL       CONTAMINATION     method     imit/base     current     history1     history2       Fuel     WC Method     >5     <1.0     A.3.8     A.2.8       Water     WC Method     >0.2     NEG     NEG     NEG       UPAR METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM 05165(m)     >100     4     7     3       Chromium     ppm     ASTM 05165(m)     >20     <1     <1     <1       Nickel     ppm     ASTM 05165(m)     >30     0     <1     <1       Nickel     ppm     ASTM 05165(m)     >30     0     <1     <1       Nickel     ppm     ASTM 05165(m)     >30     5     777     4       Ininum     ppm     ASTM 05185(m)     >10     <1     <1       Antimony     ppm     ASTM 05185(m)     0     <1     <1	Machine Age	hrs	Client Info		32855	29499	28124	
Sample Status     Initial     SEVERE     MARGINAL     MARGINAL       CONTAMINATION     method     imit/base     current     history1     history2       Fuel     WC Method     >5     <1.0     3.8     2.8       Water     WC Method     >0.2     NEG     NEG     NEG       WEAR METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM DS185(m)     >100     4     7     3       Chromium     ppm     ASTM DS185(m)     >20     <1     <1     <1       Nickel     ppm     ASTM DS185(m)     >20     2     3     2       Lead     ppm     ASTM DS185(m)     >33     0     0     <1     2       Copper     ppm     ASTM DS185(m)     >40     <1     2     3     2       Lead     ppm     ASTM DS185(m)     >30     <1     2     3       Copper     ppm     ASTM DS185(m)     0     0     0 <td< th=""><th>Oil Age</th><th>hrs</th><th>Client Info</th><th></th><th>675</th><th>500</th><th>600</th></td<>	Oil Age	hrs	Client Info		675	500	600	
CONTAMINATION     method     imit/base     current     history1     history2       Fuel     WC Method     >5     <1.0     3.8     2.8       Water     WC Method     >0.2     NEG     NEG     NEG       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM DS185(m)     >20     <1     <1     <1       Nickel     ppm     ASTM DS185(m)     >3     0     <1     <1       Nickel     ppm     ASTM DS185(m)     >4     0     <1     <1       Aluminum     ppm     ASTM DS185(m)     >30     0     <1     <1       Aluminum     ppm     ASTM DS185(m)     >40     <1     2     0       Copper     ppm     ASTM DS185(m)     >30     0     <1     1       Antimony     ppm     ASTM DS185(m)     10     <1     1     1       Antimony     ppm     ASTM DS185(m)     0     0     0     0 </th <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Changed</th> <th>Changed</th> <th>Changed</th>	Oil Changed		Client Info		Changed	Changed	Changed	
Fuel     WC Method     >5     <1.0	Sample Status				SEVERE	MARGINAL	MARGINAL	
Water     WC Method     >0.2     NEG     NEG     NEG       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185(m)     >100     4     7     3       Chromium     ppm     ASTM D5185(m)     >20     <1     <1     <1       Nickel     ppm     ASTM D5185(m)     >4     0     <1     <1       Nickel     ppm     ASTM D5185(m)     >4     0     <1     <1       Aluminum     ppm     ASTM D5185(m)     >20     2     3     2        Lead     ppm     ASTM D5185(m)     >20     2     3     2        Antimony     ppm     ASTM D5185(m)     >10     <1     0        Vanadium     ppm     ASTM D5185(m)     0     <1     0        Vanadium     ppm     ASTM D5185(m)     0     0     0     0        Vanadium     ppm     ASTM D5185(m)	CONTAMINAT	ION	method	limit/base	current	history1	history2	
WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5165(m)     >100     4     7     3       Chromium     ppm     ASTM D5165(m)     >20     <1     <1     <1       Nickel     ppm     ASTM D5165(m)     >4     0     <1     <1       Titanium     ppm     ASTM D5165(m)     >3     0     0     <1       Aluminum     ppm     ASTM D5165(m)     >20     2     3     2       Lead     ppm     ASTM D5165(m)     >330     5     777     4       Tin     ppm     ASTM D5165(m)     >15     0     <1     2       Vanadium     ppm     ASTM D5165(m)     0     0     0     0       Vanadium     ppm     ASTM D5165(m)     0     0     0     0       Cadmium     ppm     ASTM D5165(m)     0     300     1     2       Barium     ppm     ASTM D5165(m)     0     0	Fuel		WC Method	>5	<1.0	<b>3</b> .8	<b>2</b> .8	
Iron     ppm     ASTM D5185(m)     >100     4     7     3       Chromium     ppm     ASTM D5185(m)     >20     <1	Water		WC Method	>0.2	NEG	NEG	NEG	
Chromium     ppm     ASTM D5185(m)     >20     <1	WEAR METAL	S	method	limit/base	current	history1	history2	
Nickel     ppm     ASTM D518(m)     >4     0     <1	Iron	ppm	ASTM D5185(m)	>100	4	7	3	
Titanium     ppm     ASTM D5188(m)     >3     0     0     .       Silver     ppm     ASTM D5188(m)     >3     0     0     <1       Aluminum     ppm     ASTM D5188(m)     >20     2     3     2       Lead     ppm     ASTM D5188(m)     >40     <1     2     0       Copper     ppm     ASTM D5188(m)     >330     5     77     4       Tin     ppm     ASTM D5188(m)     >15     0     <1     <1       Antimony     ppm     ASTM D5188(m)     0     0     0     0       Vanadium     ppm     ASTM D5188(m)     0     0     0     0       Cadmium     ppm     ASTM D5188(m)     0     0     0     0       ADDITIVES     method     Imit/base     current     history1     history2       Boron     ppm     ASTM D5188(m)     0     0     <1     <1       Marganese     ppm     ASTM D5188(m)     1010     869	Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1	
Silver     ppm     ASTM D5185(m)     >3     0     0     <1	Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1	
Aluminum     ppm     ASTM D5185(m)     >20     2     3     2       Lead     ppm     ASTM D5185(m)     >40     <1     2     0       Copper     ppm     ASTM D5185(m)     >330     5     77     4       Tin     ppm     ASTM D5185(m)     >15     0     <1     <1       Antimony     ppm     ASTM D5185(m)     0     <1     0     0       Vanadium     ppm     ASTM D5185(m)     0     0     0     0       Cadmium     ppm     ASTM D5185(m)     0     0     0     0       Cadmium     ppm     ASTM D5185(m)     0     30     1     2       Boron     ppm     ASTM D5185(m)     0     0     0     0       Malybdenum     ppm     ASTM D5185(m)     0     0     <1     <1       Marganesium     ppm     ASTM D5185(m)     1010     869     931     899       Calcium     ppm     ASTM D5185(m)     1070     991 </th <th>Titanium</th> <th>ppm</th> <th>ASTM D5185(m)</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Titanium	ppm	ASTM D5185(m)		0	0	0	
Lead     ppm     ASTM D5185(m)     >40     <1	Silver	ppm	ASTM D5185(m)	>3	0	0	<1	
Copper     ppm     ASTM D5185(m)     >330     5     777     4       Tin     ppm     ASTM D5185(m)     >15     0     <1     <1       Antimony     ppm     ASTM D5185(m)     >15     0     <1     <1       Antimony     ppm     ASTM D5185(m)     0     0     0     0       Vanadium     ppm     ASTM D5185(m)     0     0     0     0       Beryllium     ppm     ASTM D5185(m)     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185(m)     0     30     1     2       Barium     ppm     ASTM D5185(m)     0     0     0     0       Magnessem     ppm     ASTM D5185(m)     0     0     <1     <1       Magnesium     ppm     ASTM D5185(m)     1010     869     931     899       Calcium     ppm     ASTM D5185(m)     1070     991	Aluminum	ppm	ASTM D5185(m)	>20	2	3	2	
Tin     ppm     ASTM D5185(m)     >15     0     <1	Lead	ppm	ASTM D5185(m)	>40	<1	2	0	
Antimony     ppm     ASTM D5185(m)     0     <1	Copper	ppm	ASTM D5185(m)	>330	5	77	4	
Vanadium     ppm     ASTM D5185(m)     0     0     0       Beryllium     ppm     ASTM D5185(m)     0     0     0       Cadmium     ppm     ASTM D5185(m)     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185(m)     0     0     0     0       Barium     ppm     ASTM D5185(m)     0     0     0     0     0       Molybdenum     ppm     ASTM D5185(m)     0     0     0     0     0     0       Maganese     ppm     ASTM D5185(m)     0     0     0     <1	Tin	ppm	ASTM D5185(m)	>15	0	<1	<1	
Beryllium     ppm     ASTM D5185(m)     0     0     0       Cadmium     ppm     ASTM D5185(m)     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185(m)     0     30     1     2       Barium     ppm     ASTM D5185(m)     0     0     0     0     0       Manganese     ppm     ASTM D5185(m)     0     0     0     -     1     2       Manganese     ppm     ASTM D5185(m)     0     0     0     -     1     -       Magnesium     ppm     ASTM D5185(m)     1010     869     931     899       Calcium     ppm     ASTM D5185(m)     1070     991     10002     1049       Phosphorus     ppm     ASTM D5185(m)     1270     1101     1164     1184       Sulfur     ppm     ASTM D5185(m)     2060     2649     2422     2683       Lithium	Antimony	ppm	ASTM D5185(m)		0	<1	0	
Cadmium     ppm     ASTM D5185(m)     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185(m)     0     30     1     2       Barium     ppm     ASTM D5185(m)     0     0     0     0       Molybdenum     ppm     ASTM D5185(m)     60     70     77     54       Manganese     ppm     ASTM D5185(m)     0     0     <1     <1       Magnesium     ppm     ASTM D5185(m)     1010     869     931     899       Calcium     ppm     ASTM D5185(m)     1070     991     1002     1049       Phosphorus     ppm     ASTM D5185(m)     1270     1101     1164     1184       Sulfur     ppm     ASTM D5185(m)     2060     2649     2422     2683       Lithium     ppm     ASTM D5185(m)     >25     8     7     3       Sodium     ppm     ASTM D5185(m)     >25	Vanadium	ppm	ASTM D5185(m)		0	0	0	
ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185(m)     0     30     1     2       Barium     ppm     ASTM D5185(m)     0     0     0     0       Molybdenum     ppm     ASTM D5185(m)     60     70     77     54       Manganese     ppm     ASTM D5185(m)     0     0     <1     <1       Magnesium     ppm     ASTM D5185(m)     1010     869     931     899       Calcium     ppm     ASTM D5185(m)     1070     991     1002     1049       Phosphorus     ppm     ASTM D5185(m)     1150     980     1025     949       Zinc     ppm     ASTM D5185(m)     1270     1101     1164     1184       Sulfur     ppm     ASTM D5185(m)     2060     2649     2422     2683       Lithium     ppm     ASTM D5185(m)     >25     8     7     3       Sodium     ppm     ASTM D5185(m) <th>Beryllium</th> <th>ppm</th> <th>ASTM D5185(m)</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Beryllium	ppm	ASTM D5185(m)		0	0	0	
Boron     ppm     ASTM D5185(m)     0     30     1     2       Barium     ppm     ASTM D5185(m)     0     0     0     0       Molybdenum     ppm     ASTM D5185(m)     60     70     77     54       Manganese     ppm     ASTM D5185(m)     0     0     <1     <1       Magnesium     ppm     ASTM D5185(m)     1010     869     931     899       Calcium     ppm     ASTM D5185(m)     1070     991     1002     1049       Phosphorus     ppm     ASTM D5185(m)     1150     980     1025     949       Zinc     ppm     ASTM D5185(m)     1270     1101     1164     1184       Sulfur     ppm     ASTM D5185(m)     2060     2649     2422     2683       Lithium     ppm     ASTM D5185(m)     2060     2649     2422     2683       Solicon     ppm     ASTM D5185(m)     >25     8     7     3       Sodium     ppm     ASTM D5	Cadmium	ppm	ASTM D5185(m)		0	0	0	
Barium     ppm     ASTM D5185(m)     0     0     0     0       Molybdenum     ppm     ASTM D5185(m)     60     70     77     54       Manganese     ppm     ASTM D5185(m)     0     0     <1     <1       Magnesium     ppm     ASTM D5185(m)     1010     869     931     899       Calcium     ppm     ASTM D5185(m)     1010     869     931     899       Calcium     ppm     ASTM D5185(m)     1070     991     1002     1049       Phosphorus     ppm     ASTM D5185(m)     1270     1101     1164     1184       Sulfur     ppm     ASTM D5185(m)     2060     2649     2422     2683       Lithium     ppm     ASTM D5185(m)     2060     2649     2422     2683       Silicon     ppm     ASTM D5185(m)     >25     8     7     3       Sodium     ppm     ASTM D5185(m)     >20     28     164     10       Glycol     %     A	ADDITIVES		method	limit/base	current	history1	history2	
Molybdenum     ppm     ASTM D5185(m)     60     70     77     54       Manganese     ppm     ASTM D5185(m)     0     0     <1     <1       Magnesium     ppm     ASTM D5185(m)     1010     8699     931     899       Calcium     ppm     ASTM D5185(m)     1010     869     931     899       Calcium     ppm     ASTM D5185(m)     1070     991     1002     1049       Phosphorus     ppm     ASTM D5185(m)     1150     980     1025     949       Zinc     ppm     ASTM D5185(m)     1270     1101     1164     1184       Sulfur     ppm     ASTM D5185(m)     2060     2649     2422     2683       Lithium     ppm     ASTM D5185(m)     2060     classi     7     3       Solicon     ppm     ASTM D5185(m)     >25     8     7     3       Sodium     ppm     ASTM D5185(m)     >20     28     164     10       Glycol     %	Boron	ppm	ASTM D5185(m)	0	30	1	2	
Manganese     ppm     ASTM D5185(m)     0     0     <1	Barium	ppm	ASTM D5185(m)	0	0	0	0	
Magnesium     ppm     ASTM D5185(m)     1010     869     931     899       Calcium     ppm     ASTM D5185(m)     1070     991     1002     1049       Phosphorus     ppm     ASTM D5185(m)     1150     980     1025     949       Zinc     ppm     ASTM D5185(m)     1270     1101     1164     1184       Sulfur     ppm     ASTM D5185(m)     2060     2649     2422     2683       Lithium     ppm     ASTM D5185(m)     2060     2649     2422     2683       Silicon     ppm     ASTM D5185(m)     >25     8     7     3       Sodium     ppm     ASTM D5185(m)     >25     8     7     3       Potassium     ppm     ASTM D5185(m)     >20     322     43     5       Potassium     ppm     ASTM D5185(m)     >20     28     164     10       Glycol     %     ASTM D7922*     0.019     0.0     0.0       INFRA-RED     method     limit/base	Molybdenum	ppm	ASTM D5185(m)	60	70	77	54	
Calcium     ppm     ASTM D5185(m)     1070     991     1002     1049       Phosphorus     ppm     ASTM D5185(m)     1150     980     1025     949       Zinc     ppm     ASTM D5185(m)     1270     1101     1164     1184       Sulfur     ppm     ASTM D5185(m)     2060     2649     2422     2683       Lithium     ppm     ASTM D5185(m)     2060     2649     2422     2683       Lithium     ppm     ASTM D5185(m)     2060     2649     2422     2683       Lithium     ppm     ASTM D5185(m)     2060     2649     2422     2683       Solicon     ppm     ASTM D5185(m)     2060     <1     <1     <1       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185(m)     >20     28     164     10       Glycol     %     ASTM D792*     0.19     0.0     0.0       INFRA-RED     method <td< th=""><th>Manganese</th><th>ppm</th><th>ASTM D5185(m)</th><th>0</th><th>0</th><th>&lt;1</th><th>&lt;1</th></td<>	Manganese	ppm	ASTM D5185(m)	0	0	<1	<1	
Phosphorus     ppm     ASTM D5185(m)     1150     980     1025     949       Zinc     ppm     ASTM D5185(m)     1270     1101     1164     1184       Sulfur     ppm     ASTM D5185(m)     2060     2649     2422     2683       Lithium     ppm     ASTM D5185(m)     2060     2649     2422     2683       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185(m)     >25     8     7     3       Sodium     ppm     ASTM D5185(m)     >20     ▲ 322     43     5       Potassium     ppm     ASTM D5185(m)     >20     ▲ 322     43     5       Glycol     %     ASTM D5185(m)     >20     ▲ 328     164     10       Glycol     %     ASTM D7922*     ● 0.19     0.0     0.0       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7624*	Magnesium	ppm	ASTM D5185(m)	1010	869	931	899	
Zinc     ppm     ASTM D5185(m)     1270     1101     1164     1184       Sulfur     ppm     ASTM D5185(m)     2060     2649     2422     2683       Lithium     ppm     ASTM D5185(m)     2060     2649     2422     2683       Lithium     ppm     ASTM D5185(m)     2060     current     history1        CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185(m)     >25     8     7     3       Sodium     ppm     ASTM D5185(m)     >20     322     43     5       Potassium     ppm     ASTM D5185(m)     >20     28     164     10       Glycol     %     ASTM D7922*     0.19     0.0     0.0       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7844*     >3     0     0     0       Nitration     Abs/cm     ASTM D7624*     >2	Calcium	ppm	ASTM D5185(m)	1070	991	1002	1049	
Sulfur     ppm     ASTM D5185(m)     2060     2649     2422     2683       Lithium     ppm     ASTM D5185(m)     Color     <1	Phosphorus	ppm	ASTM D5185(m)	1150	980	1025	949	
Lithium     ppm     ASTM D5185(m)     core     Lite     Lite     Lite       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185(m)     >25     8     7     3       Sodium     ppm     ASTM D5185(m)     >25     8     7     3       Potassium     ppm     ASTM D5185(m)     >20     ▲ 322     43     5       Potassium     ppm     ASTM D5185(m)     >20     ▲ 28     164     10       Glycol     %     ASTM D7922*     ● 0.19     0.0     0.0       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7844*     >3     0     0     0       Nitration     Abs/cm     ASTM D7624*     >20     7.2     7.5     6.0	Zinc	ppm	ASTM D5185(m)	1270	1101	1164	1184	
CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185(m)     >25     8     7     3       Sodium     ppm     ASTM D5185(m)     >25     8     7     3       Potassium     ppm     ASTM D5185(m)     >20     ▲ 322     43     5       Potassium     ppm     ASTM D5185(m)     >20     ▲ 28     164     10       Glycol     %     ASTM D7922*     ● 0.19     0.0     0.0       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7844*     >3     0     0     0       Nitration     Abs/cm     ASTM D7624*     >20     7.2     7.5     6.0	Sulfur	ppm	ASTM D5185(m)	2060	2649	2422	2683	
Silicon     ppm     ASTM D5185(m)     >25     8     7     3       Sodium     ppm     ASTM D5185(m)     >25     8     7     3       Sodium     ppm     ASTM D5185(m)     >20     322     43     5       Potassium     ppm     ASTM D5185(m)     >20     28     164     10       Glycol     %     ASTM D7922*     0.19     0.0     0.0       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7844*     >3     0     0     0       Nitration     Abs/cm     ASTM D7624*     >20     7.2     7.5     6.0	Lithium	ppm	ASTM D5185(m)		<1	<1	<1	
Sodium     ppm     ASTM D5185(m)     ▲ 322     43     5       Potassium     ppm     ASTM D5185(m)     >20     ▲ 28     164     10       Glycol     %     ASTM D7922*     ● 0.19     0.0     0.0       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7844*     >3     0     0     0       Nitration     Abs/cm     ASTM D7624*     >20     7.2     7.5     6.0	CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Potassium     ppm     ASTM D5185(m)     >20     ▲ 28     164     10       Glycol     %     ASTM D7922*     ● 0.19     0.0     0.0       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7844*     >3     0     0     0       Nitration     Abs/cm     ASTM D7624*     >20     7.2     7.5     6.0	Silicon	ppm	ASTM D5185(m)	>25	8	7	3	
Glycol     %     ASTM D7922*     0.19     0.0     0.0       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7844*     >3     0     0     0       Nitration     Abs/cm     ASTM D7624*     >20     7.2     7.5     6.0	Sodium	ppm	ASTM D5185(m)		<b>322</b>	43	5	
INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     ASTM D7844*     >3     0     0     0       Nitration     Abs/cm     ASTM D7624*     >20     7.2     7.5     6.0				>20		164	10	
Soot %     %     ASTM D7844*     >3     0     0     0       Nitration     Abs/cm     ASTM D7624*     >20     7.2     7.5     6.0	Glycol	%	ASTM D7922*		<b>0</b> .19	0.0	0.0	
Nitration     Abs/cm     ASTM D7624*     >20     7.2     7.5     6.0	INFRA-RED		method	limit/base	current	history1	history2	
	Soot %	%	ASTM D7844*	>3	0	0	0	
Sulfation     Abs/.1mm     ASTM D7415*     >30     17.8     20.0     17.9	Nitration	Abs/cm	ASTM D7624*	>20	7.2	7.5	6.0	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	17.8	20.0	17.9	



# **OIL ANALYSIS REPORT**





Report Id: GFL720 [WCAMIS] 02615350 (Generated: 02/13/2024 17:30:43) Rev: 1

CALA

ISO 17025:2017 Accredited

Laboratory

Laboratory

Sample No.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

Submitted By: Charles Bergeron Page 2 of 2

T: (613)538-4853

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