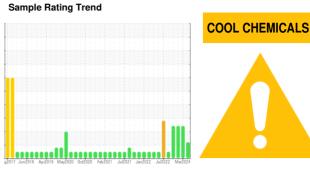


OIL ANALYSIS REPORT

(P633852) 10775C

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (30 QTS)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

All component wear rates are normal.

Contamination

Sodium and/or potassium levels remain high. Test for glycol is negative.

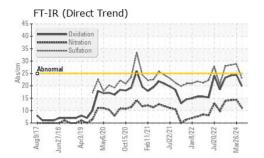
Fluid Condition

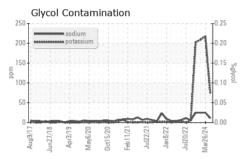
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

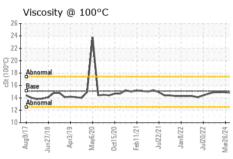
Sample Number Client Info GFL0125699 GFL0101761 GFL0101761 GFL0101761 GFL0101761 GFL0101761 GFL0101761 GFL0101761 GFL0101761 GFL0101761 SGFL0101761 CBFL0101761							
Sample Date Client Info 20 Jun 2024 26 Mar 2024 22 Mar 2024 23 Mar 2024 22 Mar 2024 23 Mar 2024 23 Mar 2024 24 Mar 2024 25 Mar 2024 25 Mar 2024 26 Mar 2024 26 Mar 2024 26 Mar 2024	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age Oil Age hrs Client Info Oil Gage 16399 15951 15930 Oil Age hrs Client Info Oil Changed 600 600 600 600 Oil Changed Sample Status Client Info Marginat Changed Changed Changed ABNORMAL ABNO	Sample Number		Client Info		GFL0125699	GFL0101761	GFL0101753
Oil Age hrs Client Info 600 600 600 600 Oil Changed Client Info Changed Carrent Inistory Changed Current Changed Carrent Assistory Carrent Carrent Carrent Carrent Carrent<	Sample Date		Client Info		20 Jun 2024	26 Mar 2024	22 Mar 2024
Oil Changed Sample Status Client Info Changed MARGINAL Changed ABNORMAL Changed ABNORMAL Changed ABNORMAL Changed ABNORMAL Changed ABNORMAL Changed ABNORMAL	Machine Age	hrs	Client Info		16399	15951	15930
MARGINAL ABNORMAL ABNORMAL CONTAMINATION method limit/base current history1 history2 history3 history3 history4 MEG NEG NEG	Oil Age	hrs	Client Info		600	600	
CONTAMINATION method limit/base current history1 history WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 13 58 54 Chromium ppm ASTM D5185m >4 <1	Oil Changed		Client Info			Ü	
Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 13 58 54 Chromium ppm ASTM D5185m >4 <1	Sample Status				MARGINAL	ABNORMAL	ABNORMAL
WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >4 <1	CONTAMINAT	ION	method	limit/base	current	history1	history2
Iron	Water		WC Method	>0.1	NEG	NEG	NEG
Chromium ppm ASTM D5185m >4 <1 4 4 Nickel ppm ASTM D5185m >2 0 2 2 Titanium ppm ASTM D5185m >2 0 2 2 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >30 1 7 7 Copper ppm ASTM D5185m >30 1 7 7 Copper ppm ASTM D5185m >35 0 2 2 Tin ppm ASTM D5185m >4 <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel	ron	ppm	ASTM D5185m	>50	13	58	54
Titanium	Chromium	ppm	ASTM D5185m	>4	<1	4	4
Silver	Nickel	ppm	ASTM D5185m	>2	0	2	2
Aluminum ppm ASTM D5185m >9 2 8 7 Lead ppm ASTM D5185m >30 1 7 7 Copper ppm ASTM D5185m >35 0 2 2 Tin ppm ASTM D5185m 0 <1	Titanium	ppm	ASTM D5185m		0	<1	<1
Lead ppm ASTM D5185m >30 1 7 7 Copper ppm ASTM D5185m >35 0 2 2 Tin ppm ASTM D5185m >4 <1 2 2 Vanadium ppm ASTM D5185m 0 <1 <1 Cadmium ppm ASTM D5185m 0 <1 <1 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 50 12 13 14 Barium ppm ASTM D5185m 50 12 13 14 Barium ppm ASTM D5185m 50 55 70 68 Manganese ppm ASTM D5185m 50 55 70 68 Manganesium ppm ASTM D5185m 50 624 749 736 Calcium ppm ASTM D5185m 1510 1746 2082 2033 </td <td>Silver</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>3</td> <th>0</th> <td>0</td> <td>0</td>	Silver	ppm	ASTM D5185m	>3	0	0	0
Copper ppm ASTM D5185m >35 0 2 2 Tin ppm ASTM D5185m >4 <1	Aluminum	ppm	ASTM D5185m	>9	2	8	7
Tin	Lead	ppm	ASTM D5185m	>30	1	7	7
Vanadium ppm ASTM D5185m 0 <1 <1 Cadmium ppm ASTM D5185m 0 <1 <1 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 50 12 13 14 Barium ppm ASTM D5185m 50 12 13 14 Barium ppm ASTM D5185m 50 12 13 14 Barium ppm ASTM D5185m 50 11 1 1 Molybdenum ppm ASTM D5185m 50 55 70 68 Manganese ppm ASTM D5185m 50 624 749 736 Calcium ppm ASTM D5185m 1510 1746 2082 2033 Phosphorus ppm ASTM D5185m 780 811 1068 1052 Zinc ppm ASTM D5185m 870 1072 1239	Copper	ppm	ASTM D5185m	>35	0	2	2
Cadmium ppm ASTM D5185m 0 <1 <1 ADDITIVES method limit/base current history1 history3 Boron ppm ASTM D5185m 50 12 13 14 Barium ppm ASTM D5185m 50 12 13 14 Barium ppm ASTM D5185m 50 55 70 68 Manganese ppm ASTM D5185m 50 55 70 68 Manganesium ppm ASTM D5185m 560 624 749 736 Calcium ppm ASTM D5185m 1510 1746 2082 2033 Phosphorus ppm ASTM D5185m 780 811 1068 1052 Zinc ppm ASTM D5185m 2040 2900 2952 2974 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 <t< td=""><td>Tin</td><td>ppm</td><td>ASTM D5185m</td><td>>4</td><th><1</th><td>2</td><td>2</td></t<>	Tin	ppm	ASTM D5185m	>4	<1	2	2
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 12 13 14 Barium ppm ASTM D5185m 5 0 1 1 Molybdenum ppm ASTM D5185m 50 55 70 68 Manganese ppm ASTM D5185m 0 1 3 3 Magnesium ppm ASTM D5185m 560 624 749 736 Calcium ppm ASTM D5185m 1510 1746 2082 2033 Phosphorus ppm ASTM D5185m 780 811 1068 1052 Zinc ppm ASTM D5185m 870 1072 1239 1218 Sulfur ppm ASTM D5185m >+100 4 11 11 Sodium ppm ASTM D5185m >+100 4 11 11 Sodium ppm ASTM D5185m >20	Vanadium	ppm	ASTM D5185m		0	<1	<1
Boron ppm ASTM D5185m 50 12 13 14 Barium ppm ASTM D5185m 5 0 1 1 1 Molybdenum ppm ASTM D5185m 50 55 70 68 Manganese ppm ASTM D5185m 0 1 3 3 Magnesium ppm ASTM D5185m 0 1 3 3 Magnesium ppm ASTM D5185m 560 624 749 736 Calcium ppm ASTM D5185m 1510 1746 2082 2033 Phosphorus ppm ASTM D5185m 780 811 1068 1052 Zinc ppm ASTM D5185m 870 1072 1239 1218 Sulfur ppm ASTM D5185m 2040 2900 2952 2974 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >+100 4 11 11 Sodium ppm ASTM D5185m >+100 4 11 11 Sodium ppm ASTM D5185m >20 ▲ 76 ▲ 218 ▲ 209 INFRA-RED method limit/base current history1 history Soot % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 11.1 14.4 14.2 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 28.8 28.4 FLUID DEGRADATION method limit/base current history1 history Instory1 history1 Soulfation Abs/.1mm *ASTM D7415 >30 23.0 28.8 28.4	Cadmium	ppm	ASTM D5185m		0	<1	<1
Barium ppm ASTM D5185m 5 0 1 1 Molybdenum ppm ASTM D5185m 50 55 70 68 Manganese ppm ASTM D5185m 0 1 3 3 Magnesium ppm ASTM D5185m 560 624 749 736 Calcium ppm ASTM D5185m 780 811 1068 1052 Zinc ppm ASTM D5185m 870 1072 1239 1218 Sulfur ppm ASTM D5185m 2040 2900 2952 2974 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >+100 4 11 11 Sodium ppm ASTM D5185m >20 4 76 218 25 Potassium ppm ASTM D5185m >20 76 218 209 INFRA-RED method limit/b	ADDITIVES		ام مالم مما	15 5-71		1000	la ta ta a su co
Molybdenum ppm ASTM D5185m 50 55 70 68 Manganese ppm ASTM D5185m 0 1 3 3 Magnesium ppm ASTM D5185m 560 624 749 736 Calcium ppm ASTM D5185m 560 624 749 736 Calcium ppm ASTM D5185m 1510 1746 2082 2033 Phosphorus ppm ASTM D5185m 780 811 1068 1052 Zinc ppm ASTM D5185m 870 1072 1239 1218 Sulfur ppm ASTM D5185m 2040 2900 2952 2974 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >+100 4 11 11 1 Sodium ppm ASTM D5185m >20 76 218 25 25 Potassium	ADDITIVES		method	ilmit/base	current	history1	nistory2
Manganese ppm ASTM D5185m 0 1 3 3 Magnesium ppm ASTM D5185m 560 624 749 736 Calcium ppm ASTM D5185m 1510 1746 2082 2033 Phosphorus ppm ASTM D5185m 780 811 1068 1052 Zinc ppm ASTM D5185m 870 1072 1239 1218 Sulfur ppm ASTM D5185m 2040 2900 2952 2974 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >+100 4 11 11 Sodium ppm ASTM D5185m >20 76 218 25 Potassium ppm ASTM D5185m >20 76 218 209 INFRA-RED method limit/base current history1 history Soot % % *ASTM D76		ppm					
Magnesium ppm ASTM D5185m 560 624 749 736 Calcium ppm ASTM D5185m 1510 1746 2082 2033 Phosphorus ppm ASTM D5185m 780 811 1068 1052 Zinc ppm ASTM D5185m 870 1072 1239 1218 Sulfur ppm ASTM D5185m 2040 2900 2952 2974 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >+100 4 11 11 Sodium ppm ASTM D5185m >+100 4 11 11 Sodium ppm ASTM D5185m >20 76 218 25 Potassium ppm ASTM D5185m >20 76 218 209 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7624	Boron		ASTM D5185m	50	12	13	14
Calcium ppm ASTM D5185m 1510 1746 2082 2033 Phosphorus ppm ASTM D5185m 780 811 1068 1052 Zinc ppm ASTM D5185m 870 1072 1239 1218 Sulfur ppm ASTM D5185m 2040 2900 2952 2974 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >+100 4 11 11 11 Sodium ppm ASTM D5185m >+100 4 11 11 11 25 ▲ 25 Potassium ppm ASTM D5185m >20 76 ▲ 218 ▲ 209 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 0 0 0 Witration Abs/cm *ASTM D7624 >20 11.1 14.4 14.2	Boron Barium	ppm	ASTM D5185m ASTM D5185m	50 5	12 0	13 1	14 1
Phosphorus ppm ASTM D5185m 780 811 1068 1052 Zinc ppm ASTM D5185m 870 1072 1239 1218 Sulfur ppm ASTM D5185m 2040 2900 2952 2974 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >+100 4 11 11 Sodium ppm ASTM D5185m >+100 4 11 11 Sodium ppm ASTM D5185m >20 76 218 209 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 11.1 14.4 14.2 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 28.8 28.4	Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50	12 0 55	13 1 70	14 1 68
Zinc ppm ASTM D5185m 870 1072 1239 1218 Sulfur ppm ASTM D5185m 2040 2900 2952 2974 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >+100 4 11 11 Sodium ppm ASTM D5185m 11 △ 25 △ 25 Potassium ppm ASTM D5185m >20 △ 76 △ 218 △ 209 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 11.1 14.4 14.2 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 28.8 28.4 FLUID DEGRADATION method limit/base current history1 history1	Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0	12 0 55 1	13 1 70 3	14 1 68 3
Sulfur ppm ASTM D5185m 2040 2900 2952 2974 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 4 11 11 Sodium ppm ASTM D5185m 11 ▲ 25 ▲ 25 Potassium ppm ASTM D5185m >20 ▲ 76 ▲ 218 ▲ 209 INFRA-RED method limit/base current history1 history Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 11.1 14.4 14.2 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 28.8 28.4 FLUID DEGRADATION method limit/base current history1 history1	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560	12 0 55 1 624	13 1 70 3 749	14 1 68 3 736
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 4 11 11 Sodium ppm ASTM D5185m 11 ▲ 25 ▲ 25 Potassium ppm ASTM D5185m >20 ▲ 76 ▲ 218 ▲ 209 INFRA-RED method limit/base current history1 history Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 11.1 14.4 14.2 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 28.8 28.4 FLUID DEGRADATION method limit/base current history1 history1	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560 1510	12 0 55 1 624 1746	13 1 70 3 749 2082	14 1 68 3 736 2033
Silicon ppm ASTM D5185m >+100 4 11 11 Sodium ppm ASTM D5185m 11 △ 25 △ 25 Potassium ppm ASTM D5185m >20 ▲ 76 △ 218 △ 209 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 11.1 14.4 14.2 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 28.8 28.4 FLUID DEGRADATION method limit/base current history1 history2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780	12 0 55 1 624 1746 811	13 1 70 3 749 2082 1068	14 1 68 3 736 2033 1052
Sodium ppm ASTM D5185m 11 △ 25 △ 25 Potassium ppm ASTM D5185m >20 ▲ 76 △ 218 △ 209 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 11.1 14.4 14.2 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 28.8 28.4 FLUID DEGRADATION method limit/base current history1 history1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780 870	12 0 55 1 624 1746 811 1072	13 1 70 3 749 2082 1068 1239	14 1 68 3 736 2033 1052 1218
Potassium ppm ASTM D5185m >20 ▶ 76 ▶ 218 ▶ 209 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 11.1 14.4 14.2 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 28.8 28.4 FLUID DEGRADATION method limit/base current history1 history2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	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 ASTM D5185m	50 5 50 0 560 1510 780 870 2040	12 0 55 1 624 1746 811 1072 2900	13 1 70 3 749 2082 1068 1239 2952	14 1 68 3 736 2033 1052 1218
INFRA-RED	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	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 ASTM D5185m	50 5 50 0 560 1510 780 870 2040 limit/base	12 0 55 1 624 1746 811 1072 2900	13 1 70 3 749 2082 1068 1239 2952 history1	14 1 68 3 736 2033 1052 1218 2974
Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 11.1 14.4 14.2 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 28.8 28.4 FLUID DEGRADATION method limit/base current history1 history2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	50 5 50 0 560 1510 780 870 2040 limit/base	12 0 55 1 624 1746 811 1072 2900 current	13 1 70 3 749 2082 1068 1239 2952 history1	14 1 68 3 736 2033 1052 1218 2974 history2
Nitration Abs/cm *ASTM D7624 >20 11.1 14.4 14.2 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 28.8 28.4 FLUID DEGRADATION method limit/base current history1 history1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	50 5 50 0 560 1510 780 870 2040 limit/base >+100	12 0 55 1 624 1746 811 1072 2900 current 4 11	13 1 70 3 749 2082 1068 1239 2952 history1 11	14 1 68 3 736 2033 1052 1218 2974 history2 11
Sulfation Abs/.1mm *ASTM D7415 >30 23.0 28.8 28.4 FLUID DEGRADATION method limit/base current history1 history.	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	50 5 50 0 560 1510 780 870 2040 limit/base >+100 >20	12 0 55 1 624 1746 811 1072 2900 current 4 11 76	13 1 70 3 749 2082 1068 1239 2952 history1 11 25 218	14 1 68 3 736 2033 1052 1218 2974 history2 11
FLUID DEGRADATION method limit/base current history1 history	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	50 5 50 0 560 1510 780 870 2040 limit/base >+100 >20	12 0 55 1 624 1746 811 1072 2900 current 4 11 76 current	13 1 70 3 749 2082 1068 1239 2952 history1 11 ▲ 25 ▲ 218 history1	14 1 68 3 736 2033 1052 1218 2974 history2 11 ▲ 25 ▲ 209 history2
	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 ppm	ASTM D5185m	50 5 50 0 560 1510 780 870 2040 limit/base >+100 >20 limit/base	12 0 55 1 624 1746 811 1072 2900 current 4 11 ▲ 76 current 0	13 1 70 3 749 2082 1068 1239 2952 history1 11 ▲ 25 ▲ 218 history1 0	14 1 68 3 736 2033 1052 1218 2974 history2 11 △ 25 △ 209 history2 0
Oxidation Abs/1mm *ASTM D7414 >25 19 9 24 4 24 2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm	ASTM D5185m method ASTM D5185m	50 5 50 0 560 1510 780 870 2040 limit/base >+100 >20 limit/base	12 0 55 1 624 1746 811 1072 2900 current 4 11 ▲ 76 current 0 11.1	13 1 70 3 749 2082 1068 1239 2952 history1 11 ▲ 25 ▲ 218 history1 0 14.4	14 1 68 3 736 2033 1052 1218 2974 history2 11 ▲ 25 ▲ 209 history2 0 14.2
ONIGATION NOTHING MODIFIES AND LAST CASE	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 Method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76185m	50 5 50 0 560 1510 780 870 2040 limit/base >+100 >20 limit/base	12 0 55 1 624 1746 811 1072 2900 current 4 11 ▲ 76 current 0 11.1 23.0	13 1 70 3 749 2082 1068 1239 2952 history1 11 ▲ 25 ▲ 218 history1 0 14.4 28.8	14 1 68 3 736 2033 1052 1218 2974 history2 11 ▲ 25 ▲ 209 history2 0 14.2
Base Number (BN) mg KOH/g ASTM D2896 10.2 4.6 3.9 4.1	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 Method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76185m	50 5 50 0 560 1510 780 870 2040 limit/base >+100 >20 limit/base	12 0 55 1 624 1746 811 1072 2900 current 4 11 ▲ 76 current 0 11.1 23.0	13 1 70 3 749 2082 1068 1239 2952 history1 11 ▲ 25 ▲ 218 history1 0 14.4 28.8	14 1 68 3 736 2033 1052 1218 2974 history2 11 ▲ 25 ▲ 209 history2 0 14.2 28.4

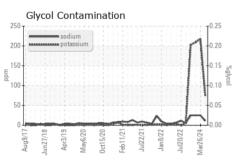


OIL ANALYSIS REPORT





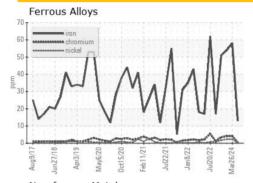


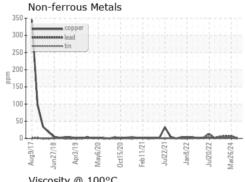


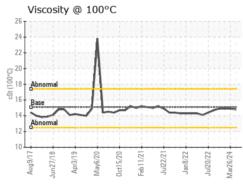
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

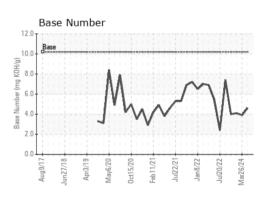
FLUID PROP	EHIIES	method	iiiiii/base	current	riistory i	riistoryz
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	14.9	14.9

GRAPHS













Laboratory

Sample No. Lab Number : 06216710

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0125699

Received **Tested** Diagnosed

: 21 Jun 2024 : 24 Jun 2024 : 24 Jun 2024 - Jonathan Hester

3010 HWY 378 Conway, SC US 29527 Contact: ARCILIO RUEZ

Certificate 12367

Unique Number : 11089574 Test Package : FLEET (Additional Tests: Glycol)

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)

F: Submitted By: TECHNICIAN ACCOUNT

GFL Environmental - 030 - Conway Myrtle Beach

T:

aruiz@gflenv.com