

PROBLEM SUMMARY

Sample Rating Trend

7017 Ne2017 Alugan 8 Indian Machan Carbon Ludan 1 Indian 1 Indian

WEAR



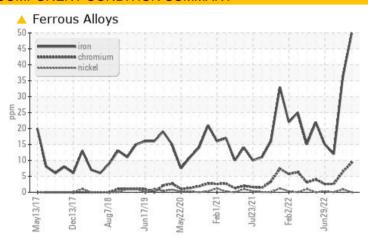
10743C AUTOCAR ISL

Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (28 QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS Sample Status **ABNORMAL** ABNORMAL NORMAL Chromium ppm ASTM D5185m >4 <u></u> 6

Customer Id: GFL001 Sample No.: GFL0056767 Lab Number: 05844256 Test Package: FLEET To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

10 Mar 2023 Diag: Don Baldridge

WEAR



Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The chromium level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



16 Sep 2022 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



29 Jun 2022 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend

w/2017 Occidity Augustes Juni2019 May/2020 Feb2021 Just2021 Feb2022 Just2022

WEAR



10743C AUTOCAR ISL

Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (28 QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The chromium level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the

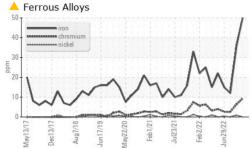
Fluid Condition

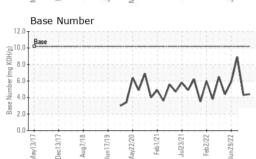
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

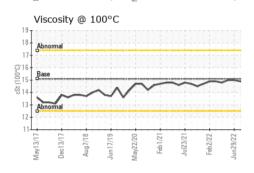
SAMPLE INFORMATION method limit/base current history 1 history 2 Sample Number Client Info GFL0056767 GFL0056642 GFL0056530 16 Sep 2022 Sample Date Client Info 6378 5996 4672 Oil Age hrs Client Info 6378 5996 4672 Oil Age hrs Client Info 434 1353 882 Oil Changed Client Info Changed	w2017 Dec2017 Aug2018 Jun2019 May2020 Feb2021 Jul2021 Feb2022 Jun2022						
Sample Date Client Info 09 May 2023 10 Mar 2023 16 Sep 2022 Machine Age hrs Client Info 6378 5996 4672 Oil Age hrs Client Info 434 1353 882 Oil Changed Clanged Changed ABMORIAL NORMAL Changed ABMORDAL ABMORDAL ABMORDAL ABMORDAL ABMORDAL ABMORDAL ABMORDAL ABMORDAL ABMORDAL <t< th=""><th>SAMPLE INFOR</th><th>MATION</th><th>method</th><th>limit/base</th><th>current</th><th>history 1</th><th>history 2</th></t<>	SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Machine Age hrs Client Info 6378 5996 4672 Oil Age hrs Client Info 434 1353 882 Oil Changed Client Info Changed Changed Changed Sample Status remethod limit/base current history 1 history 2 Iron ppm ASTM D5185m >50 50 36 12 Chromium ppm ASTM D5185m >4 9 6 3 Nickel ppm ASTM D5185m >2 0 <1	Sample Number		Client Info		GFL0056767	GFL0056642	GFL0056530
Oil Age hrs Client Info 434 1353 882 Oil Changed Client Info Changed ABNORMAL NORMAL Iron ppm ASTM D5185m >50 50 36 12 <td< td=""><td>Sample Date</td><td></td><td>Client Info</td><td></td><th>09 May 2023</th><td>10 Mar 2023</td><td>16 Sep 2022</td></td<>	Sample Date		Client Info		09 May 2023	10 Mar 2023	16 Sep 2022
Oil Changed Sample Status Client Info Changed ABNORMAL ABNORMAL ABNORMAL NORMAL Changed ABNORMAL ABNORMAL NORMAL NORMAL Changed ABNORMAL ABNORMAL NORMAL Changed ABNORMAL ABNORMAL NORMAL Changed ABNORMAL NORMAL NORMAL Changed ABNORMAL NORMAL NORMAL Changed ABNORMAL NORMAL NORMAL Iron ppm ASTM D5185m >50 50 36 12 Chromium ppm ASTM D5185m >2 0 <1	Machine Age	hrs	Client Info		6378	5996	4672
Sample Status method limit/base current history 1 history 2 Iron ppm ASTM D5185m >50 50 36 12 Chromium ppm ASTM D5185m >4 9 6 3 Nickel ppm ASTM D5185m >2 0 <1 0 Silver ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 5 5 <1 Lead ppm ASTM D5185m >9 5 5 <1 Copper ppm ASTM D5185m >30 <1 0 <1 Vanadium ppm ASTM D5185m >30 <1 0 <1 0 ADDITIVES method limit/base current history 1 history 2 Boron ppm ASTM D5185m 5 0	Oil Age	hrs	Client Info		434	1353	882
WEAR METALS method limit/base current history 1 history 2 Iron ppm ASTM D5185m >50 50 36 12 Chromium ppm ASTM D5185m >4 9 6 3 Nickel ppm ASTM D5185m >2 0 <1	Oil Changed		Client Info		Changed	Changed	Changed
Iron	Sample Status				ABNORMAL	ABNORMAL	NORMAL
Chromium ppm ASTM D5185m >4 9 9 6 6 3 Nickel ppm ASTM D5185m >2 0 <1 0 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >30 <1 5 <1 Lead ppm ASTM D5185m >30 <1 5 <1 Copper ppm ASTM D5185m >30 <1 0 <1 Tin ppm ASTM D5185m >4 0 <1 0 Vanadium ppm ASTM D5185m >4 0 <1 0 Vanadium ppm ASTM D5185m 5 0 0 0 0 Cadmium ppm ASTM D5185m 50 12 12 12 31 Barium ppm ASTM D5185m 50	WEAR METAL	S	method	limit/base	current	history 1	history 2
Nickel	Iron	ppm	ASTM D5185m	>50	50	36	12
Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 5 5 <1 Lead ppm ASTM D5185m >30 <1 5 <1 Copper ppm ASTM D5185m >35 0 <1 0 Tin ppm ASTM D5185m >4 0 <1 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history 1 history 2 Boron ppm ASTM D5185m 50 12 12 12 31 ADDITIVES method limit/base current history 1 history 2 Boron ppm ASTM D5185m 50 12 12	Chromium	ppm	ASTM D5185m	>4	<u>^</u> 9	<u>^</u> 6	3
Stilver	Nickel	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	Titanium	ppm	ASTM D5185m		0	0	0
Lead	Silver	ppm	ASTM D5185m	>3	0	0	0
Copper ppm ASTM D5185m >35 0 <1 0 Tin ppm ASTM D5185m >4 0 <1	Aluminum	ppm	ASTM D5185m	>9	5	5	<1
Tin ppm ASTM D5185m >4 0 <1 0 Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history 1 history 2 Boron ppm ASTM D5185m 50 12 12 12 31 Barium ppm ASTM D5185m 50 0 0 0 Molybdenum ppm ASTM D5185m 50 52 55 51 Manganese ppm ASTM D5185m 50 54 559 541 Calcium ppm ASTM D5185m 560 544 559 541 Calcium ppm ASTM D5185m 780 714 786 812 Zinc ppm ASTM D5185m 870 929 1001 955 Sulfur ppm ASTM D5185m 2040 2549 2424 <td>Lead</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>30</td> <th><1</th> <td>5</td> <td><1</td>	Lead	ppm	ASTM D5185m	>30	<1	5	<1
Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history 1 history 2 Boron ppm ASTM D5185m 50 12 12 31 Barium ppm ASTM D5185m 50 0 0 0 Molybdenum ppm ASTM D5185m 50 52 55 51 Manganese ppm ASTM D5185m 560 544 559 541 Magnesium ppm ASTM D5185m 780 714 786 812 Calcium ppm ASTM D5185m 780 714 786 812 Phosphorus ppm ASTM D5185m 870 929 1001 955 Sulfur ppm ASTM D5185m 2040 2549 2424 2890 CONTAMINANTS method limit/base cur	Copper	ppm	ASTM D5185m	>35	0	<1	0
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ADDITIVES method limit/base current history 1 history 2 Boron ppm ASTM D5185m 50 12 12 31 Barium ppm ASTM D5185m 5 0 0 0 Molybdenum ppm ASTM D5185m 50 52 55 51 Manganese ppm ASTM D5185m 560 544 559 541 Calcium ppm ASTM D5185m 780 714 786 812 Zinc ppm ASTM D5185m 70 929 1001 955 Sulfur ppm ASTM D5185m 2040 2549 2424 2890 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >+100 15 13 8 Sodium ppm ASTM D5185m >20 2 1 1 INFRA-RED method limit/base current<	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 50 12 12 31 Barium ppm ASTM D5185m 5 0 0 0 Molybdenum ppm ASTM D5185m 50 52 55 51 Manganese ppm ASTM D5185m 50 544 559 541 Calcium ppm ASTM D5185m 560 544 559 541 Calcium ppm ASTM D5185m 780 714 786 812 Phosphorus ppm ASTM D5185m 870 929 1001 955 Sulfur ppm ASTM D5185m 2040 2549 2424 2890 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >+100 15 13 8 Sodium ppm ASTM D5185m >20 2 1 1 INFRA-RED method limit/base	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 5 0 0 0 Molybdenum ppm ASTM D5185m 50 52 55 51 Manganese ppm ASTM D5185m 0 <1	ADDITIVES		method	limit/base	current	history 1	history 2
Molybdenum ppm ASTM D5185m 50 52 55 51 Manganese ppm ASTM D5185m 0 <1 1 <1 Magnesium ppm ASTM D5185m 560 544 559 541 Calcium ppm ASTM D5185m 1510 1587 1656 1581 Phosphorus ppm ASTM D5185m 780 714 786 812 Zinc ppm ASTM D5185m 780 714 786 812 Zinc ppm ASTM D5185m 870 929 1001 955 Sulfur ppm ASTM D5185m 2040 2549 2424 2890 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >+100 15 13 8 Sodium ppm ASTM D5185m >20 2 1 1 INFRA-RED method limit/b	Boron	ppm	ASTM D5185m				
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Sulfur ppm ASTM D5185m 2040 2549 2424 2890 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >+100 15 13 8 Sodium ppm ASTM D5185m 6 5 2 Potassium ppm ASTM D5185m >20 2 1 1 INFRA-RED method limit/base current history 1 history 2 Soot % % *ASTM D7844 0 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 10.7 12.5 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 22.6 24.2 20.7 FLUID DEGRADATION method limit/base current history 1 history 2 Oxidation Abs/.1mm *ASTM D7414 >25 19.6 20.8 17.2	•						
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Silicon ppm ASTM D5185m >+100 15 13 8 Sodium ppm ASTM D5185m 6 5 2 Potassium ppm ASTM D5185m >20 2 1 1 INFRA-RED method limit/base current history 1 history 2 Soot % % *ASTM D7844 0 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 10.7 12.5 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 22.6 24.2 20.7 FLUID DEGRADATION method limit/base current history 1 history 2 Oxidation Abs/.1mm *ASTM D7414 >25 19.6 20.8 17.2			ASTM D5185m	2040	2549	2424	2890
Sodium ppm ASTM D5185m 6 5 2 Potassium ppm ASTM D5185m >20 2 1 1 INFRA-RED method limit/base current history 1 history 2 Soot % % *ASTM D7844 0 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 10.7 12.5 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 22.6 24.2 20.7 FLUID DEGRADATION method limit/base current history 1 history 2 Oxidation Abs/.1mm *ASTM D7414 >25 19.6 20.8 17.2	CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Potassium ppm ASTM D5185m >20 2 1 1 INFRA-RED method limit/base current history 1 history 2 Soot % % *ASTM D7844 0 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 10.7 12.5 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 22.6 24.2 20.7 FLUID DEGRADATION method limit/base current history 1 history 2 Oxidation Abs/.1mm *ASTM D7414 >25 19.6 20.8 17.2	Silicon	ppm	ASTM D5185m	>+100	15	13	8
INFRA-RED method limit/base current history 1 history 2 Soot % % *ASTM D7844 0 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 10.7 12.5 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 22.6 24.2 20.7 FLUID DEGRADATION method limit/base current history 1 history 2 Oxidation Abs/.1mm *ASTM D7414 >25 19.6 20.8 17.2	Sodium	ppm	ASTM D5185m		6	5	2
Soot % % *ASTM D7844 0 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 10.7 12.5 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 22.6 24.2 20.7 FLUID DEGRADATION method limit/base current history 1 history 2 Oxidation Abs/.1mm *ASTM D7414 >25 19.6 20.8 17.2	Potassium	ppm	ASTM D5185m	>20	2	1	1
Nitration Abs/cm *ASTM D7624 >20 10.7 12.5 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 22.6 24.2 20.7 FLUID DEGRADATION method limit/base current history 1 history 2 Oxidation Abs/.1mm *ASTM D7414 >25 19.6 20.8 17.2	INFRA-RED		method	limit/base	current	history 1	history 2
Sulfation Abs/.1mm *ASTM D7415 >30 22.6 24.2 20.7 FLUID DEGRADATION method limit/base current history 1 history 2 Oxidation Abs/.1mm *ASTM D7414 >25 19.6 20.8 17.2	Soot %	%	*ASTM D7844		0	0.1	0.1
FLUID DEGRADATION method limit/base current history 1 history 2 Oxidation Abs/.1mm *ASTM D7414 >25 19.6 20.8 17.2	Nitration	Abs/cm	*ASTM D7624	>20	10.7	12.5	8.5
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	24.2	20.7
	FLUID DEGRAI	NOITAC	method	limit/base	current	history 1	history 2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	20.8	17.2
	Base Number (BN)		ASTM D2896	10.2			8.9



OIL ANALYSIS REPORT



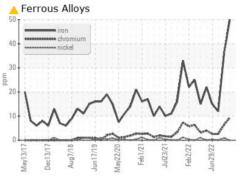


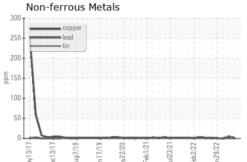


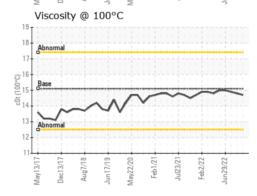
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

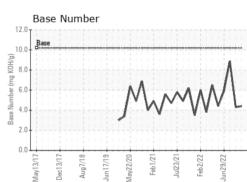
FLUID PROPE	RHES	method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.8	14.9

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0056767 : 05844256 : 10468363

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

: 11 May 2023 : 12 May 2023 Diagnostician : Don Baldridge

3741 Conquest Drive Garner, NC US 27529 Contact: Craig Johnson

craig.johnson@gflenv.com T: (919)662-7100 F: (919)662-7130

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)