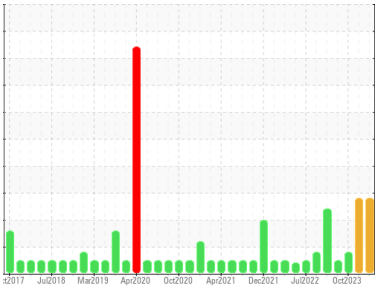
PROBLEM SUMMARY

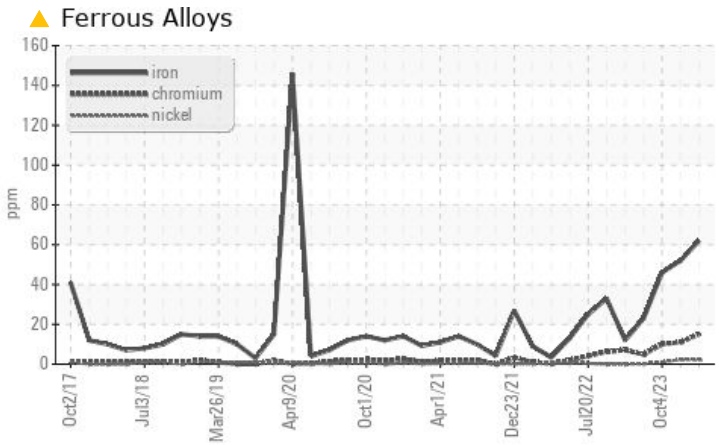
Sample Rating Trend



DEGRADATION

Machine Id
10774C
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (30 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. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>50	▲ **62**	▲ 52	46
Chromium	ppm	ASTM D5185m	>4	▲ **15**	▲ 11	▲ 10
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	▲ **0.6**	▲ 1.9	2.8

Customer Id: GFL030
Sample No.: GFL0090071
Lab Number: 05997775
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.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

12 Oct 2023 Diag: Don Baldridge

DEGRADATION

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.Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The BN level is low.

view report

04 Oct 2023 Diag: Don Baldridge

WEAR

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.

view report

20 Mar 2023 Diag: Jonathan Hester

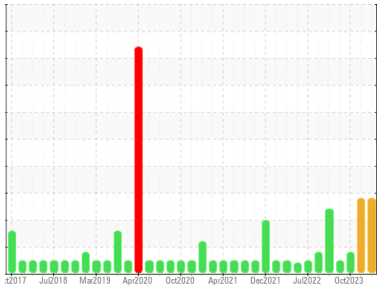
NORMAL

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

view report

OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Machine Id
10774C
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (30 QTS)

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear
Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The BN level is low.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0090071**	GFL0090116	GFL0090095
Sample Date		Client Info		**02 Nov 2023**	12 Oct 2023	04 Oct 2023
Machine Age	mls	Client Info		**190800**	16080	190204
Oil Age	mls	Client Info		**600**	600	0
Oil Changed		Client Info		**Changed**	Changed	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	▲ **62**	▲ 52	46
Chromium	ppm	ASTM D5185m	>4	▲ **15**	▲ 11	▲ 10
Nickel	ppm	ASTM D5185m	>2	**2**	2	1
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	**5**	5	3
Lead	ppm	ASTM D5185m	>30	**16**	13	12
Copper	ppm	ASTM D5185m	>35	**3**	2	1
Tin	ppm	ASTM D5185m	>4	**1**	1	1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

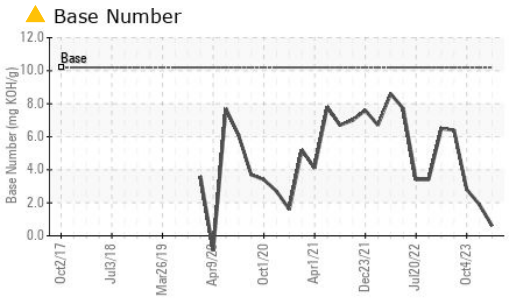
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	**5**	4	5
Barium	ppm	ASTM D5185m	5	**0**	10	0
Molybdenum	ppm	ASTM D5185m	50	**68**	62	66
Manganese	ppm	ASTM D5185m	0	**2**	2	1
Magnesium	ppm	ASTM D5185m	560	**730**	639	767
Calcium	ppm	ASTM D5185m	1510	**1890**	1772	1869
Phosphorus	ppm	ASTM D5185m	780	**868**	895	952
Zinc	ppm	ASTM D5185m	870	**1162**	1061	1215
Sulfur	ppm	ASTM D5185m	2040	**2353**	2410	2724

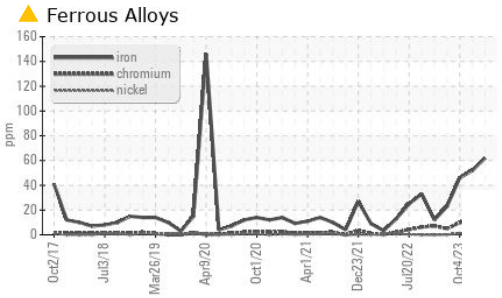
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	**17**	17	16
Sodium	ppm	ASTM D5185m		**26**	17	17
Potassium	ppm	ASTM D5185m	>20	**1**	4	2

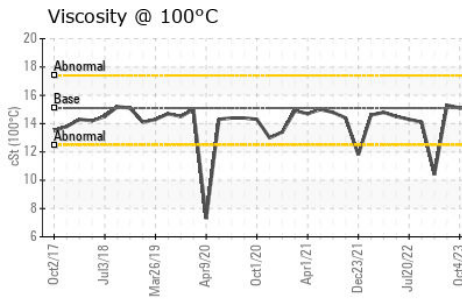
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.1**	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**18.2**	13.9	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	**34.2**	30.1	27.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**38.7**	30.2	26.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	▲ **0.6**	▲ 1.9	2.8

OIL ANALYSIS REPORT



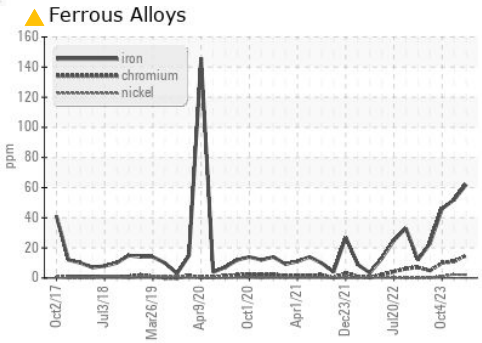


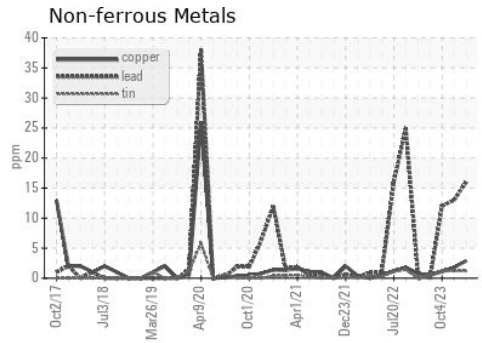


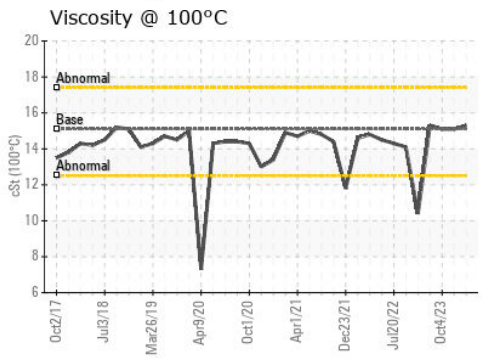
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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

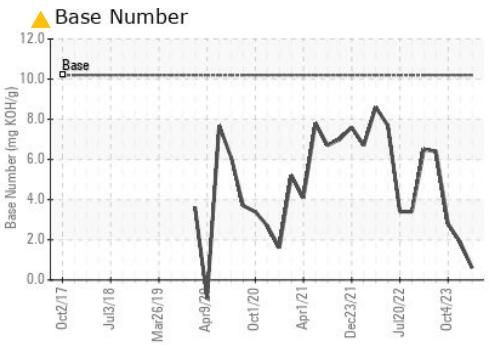
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	**15.3**	15.1	15.1

GRAPHS









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0090071
Lab Number : 05997775
Unique Number : 10726135
Test Package : FLEET

Received : 03 Nov 2023
Diagnosed : 06 Nov 2023
Diagnostician : Don Baldridge

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)

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Report Id: GFL030 [WUSCAR] 05997775 (Generated: 11/06/2023 11:28:25) Rev: 1

Submitted By: CHET STROSCHINE