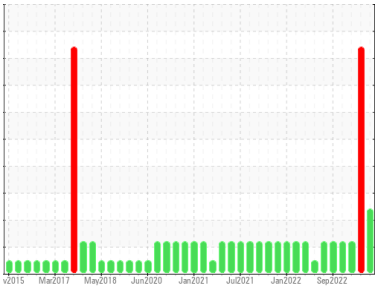
PROBLEM SUMMARY

Sample Rating Trend

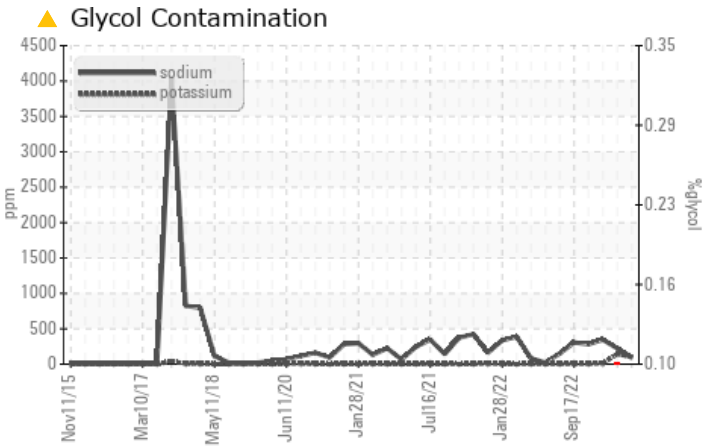


COOLANT

Machine Id
2618C
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (12 GAL)

COMPONENT CONDITION SUMMARY

▲ Glycol Contamination



RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	SEVERE	ATTENTION
Sodium	ppm	ASTM D5185m		▲ **95**	▲ 222	▲ 346
Potassium	ppm	ASTM D5185m	>20	▲ **102**	▲ 145	12

Customer Id: GFL017
Sample No.: GFL0083303
Lab Number: 05887633
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

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 Glycol Access	---	---	?	We advise that you check for the source of the coolant leak.

HISTORICAL DIAGNOSIS

20 Jun 2023 Diag: Jonathan Hester

GLYCOL

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is positive. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report

08 Feb 2023 Diag: Doug Bogart

COOLANT

We advise that you check for possible coolant leak. 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. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report

15 Nov 2022 Diag: Sean Felton

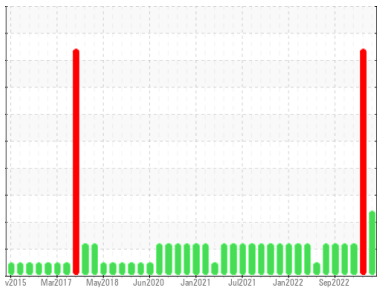
COOLANT

We advise that you check for possible coolant leak. 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. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



COOLANT

Machine Id
2618C
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (12 GAL)

DIAGNOSIS

Recommendation
We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
Sodium and/or potassium levels are high.

Fluid Condition
The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number		Client Info		**GFL0083303**	GFL0083307	GFL0065777
Sample Date		Client Info		**29 Jun 2023**	20 Jun 2023	08 Feb 2023
Machine Age	hrs	Client Info		**10732**	10732	10732
Oil Age	hrs	Client Info		**398**	398	592
Oil Changed		Client Info		**N/A**	N/A	Changed
Sample Status				**ABNORMAL**	SEVERE	ATTENTION

CONTAMINATION		method	limit/base	current	history 1	history 2
Glycol		WC Method		**---**	0.10	---

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	**5**	8	16
Chromium	ppm	ASTM D5185m	>4	**<1**	<1	1
Nickel	ppm	ASTM D5185m	>2	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	**<1**	1	2
Lead	ppm	ASTM D5185m	>30	**0**	<1	1
Copper	ppm	ASTM D5185m	>35	**0**	<1	<1
Tin	ppm	ASTM D5185m	>4	**0**	0	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	**21**	13	15
Barium	ppm	ASTM D5185m	5	**14**	0	0
Molybdenum	ppm	ASTM D5185m	50	**53**	55	61
Manganese	ppm	ASTM D5185m	0	**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	560	**591**	569	550
Calcium	ppm	ASTM D5185m	1510	**1621**	1641	1585
Phosphorus	ppm	ASTM D5185m	780	**785**	749	714
Zinc	ppm	ASTM D5185m	870	**990**	968	926
Sulfur	ppm	ASTM D5185m	2040	**3015**	2834	2747

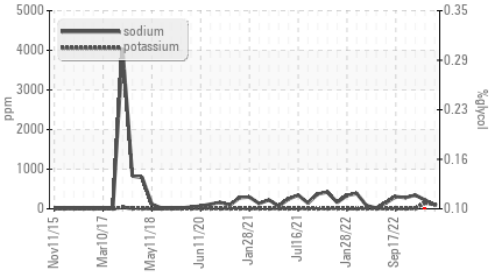
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>+100	**12**	37	10
Sodium	ppm	ASTM D5185m		**95**	222	346
Potassium	ppm	ASTM D5185m	>20	**102**	145	12

INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844		**0.1**	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**8.1**	10.3	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.5**	21.3	21.4

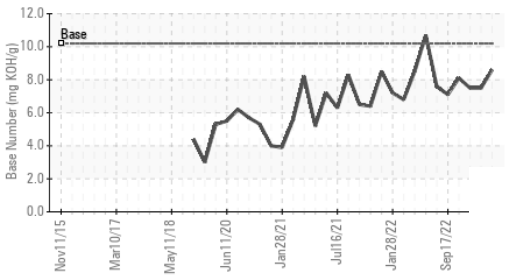
FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**16.9**	17.5	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	**8.6**	7.5	7.5

OIL ANALYSIS REPORT

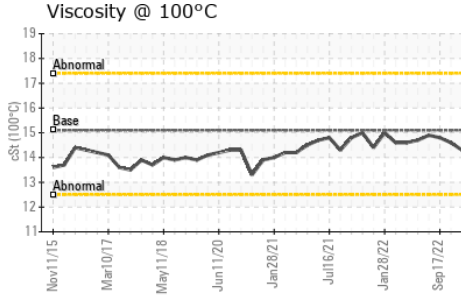
Glycol Contamination



Base Number



Viscosity @ 100°C

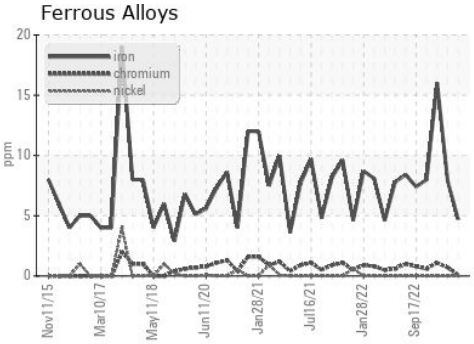


VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	**LIGHT**	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	LIGHT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

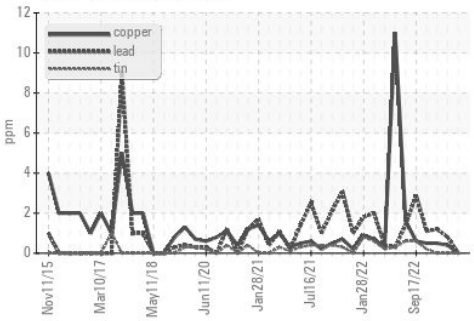
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.1	**14.5**	14.7	14.3

GRAPHS

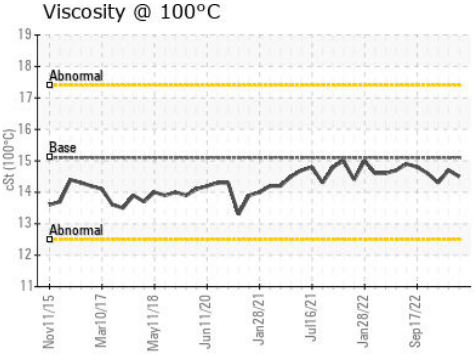
Ferrous Alloys



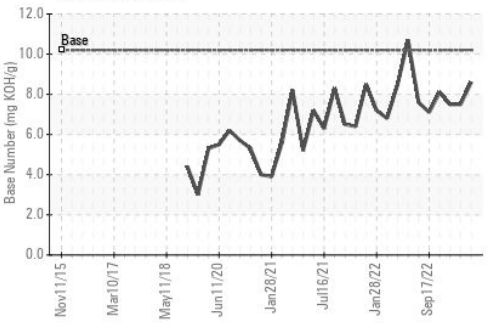
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0083303
Lab Number : 05887633
Unique Number : 10538116
Test Package : FLEET

Received : 30 Jun 2023
Diagnosed : 06 Jul 2023
Diagnostician : Angela Borella

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)

GFL Environmental - 017 - Durham
148 Stone Park Court
Durham, NC
US 27703
Contact: Shane Parks
shane.parks@gflenv.com
T: (919)596-1363
F: (919)598-1852