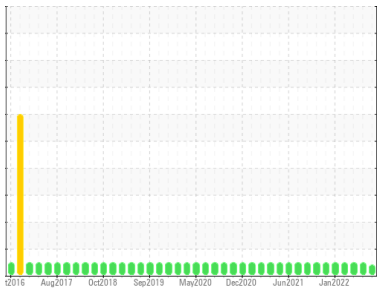
OIL ANALYSIS REPORT

Area
(UA35898)
Machine Id
3618C
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (7 GAL)

Sample Rating Trend



VISCOSITY

DIAGNOSIS

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0023765**	GFL0052188	GFL0044072
Sample Date		Client Info		**18 Jan 2024**	20 Sep 2022	26 May 2022
Machine Age	hrs	Client Info		**23651**	21086	21086
Oil Age	hrs	Client Info		**229**	22394	21739
Oil Changed		Client Info		**N/A**	Changed	Not Changd
Sample Status				**ATTENTION**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**28**	33	15
Chromium	ppm	ASTM D5185m	>4	**1**	5	2
Nickel	ppm	ASTM D5185m	>2	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>3	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>9	**2**	11	7
Lead	ppm	ASTM D5185m	>30	**0**	26	1
Copper	ppm	ASTM D5185m	>35	**2**	2	<1
Tin	ppm	ASTM D5185m	>4	**<1**	1	0
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	**35**	5	0
Barium	ppm	ASTM D5185m	5	**0**	0	0
Molybdenum	ppm	ASTM D5185m	50	**54**	107	96
Manganese	ppm	ASTM D5185m	0	**<1**	1	<1
Magnesium	ppm	ASTM D5185m	560	**661**	642	637
Calcium	ppm	ASTM D5185m	1510	**1575**	1628	1479
Phosphorus	ppm	ASTM D5185m	780	**875**	770	683
Zinc	ppm	ASTM D5185m	870	**1083**	978	866
Sulfur	ppm	ASTM D5185m	2040	**2804**	2905	2440

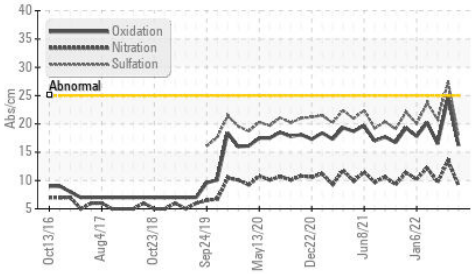
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	**17**	7	6
Sodium	ppm	ASTM D5185m		**58**	12	7
Potassium	ppm	ASTM D5185m	>20	**3**	2	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.1**	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**9.1**	13.5	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	**17.8**	27.4	20.8

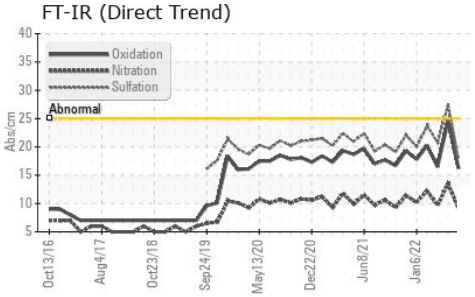
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**16.2**	24.7	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	**9.6**	3.7	4.2

OIL ANALYSIS REPORT

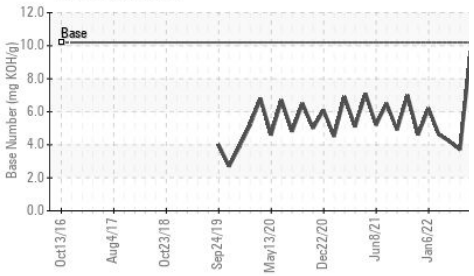
FT-IR (Direct Trend)



FT-IR (Direct Trend)



Base Number

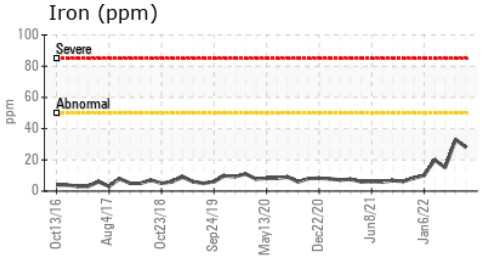


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

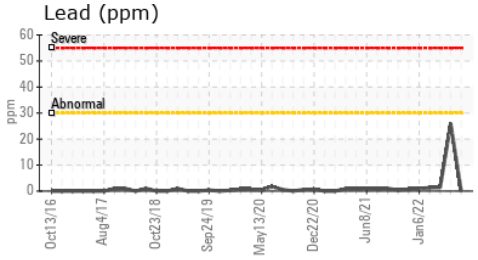
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	**17.71**	14.5	14.5

GRAPHS

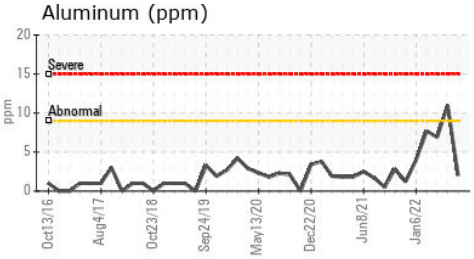
Iron (ppm)



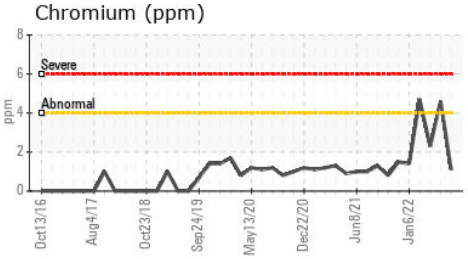
Lead (ppm)



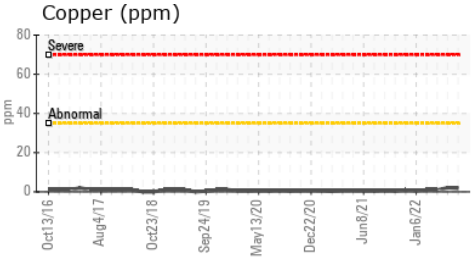
Aluminum (ppm)



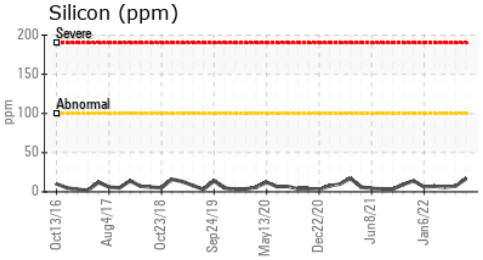
Chromium (ppm)



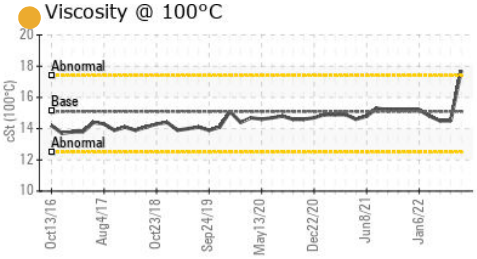
Copper (ppm)



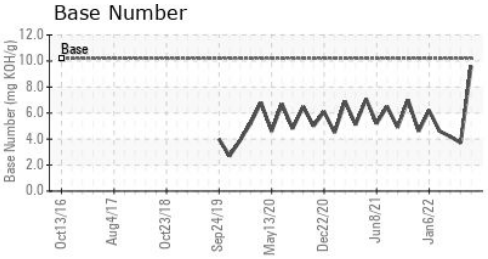
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0023765
Lab Number : 06065385
Unique Number : 10836767
Test Package : MOB1+

Received : 19 Jan 2024
Tested : 24 Jan 2024
Diagnosed : 24 Jan 2024 - Doug Bogart

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 - 045 - Tidewater
3821 Cook Blvd.
Chesapeake, VA
US 23323
Contact: ELVIN RODRIGUEZ
elvinrodriguez@gflenv.com
T:
F: