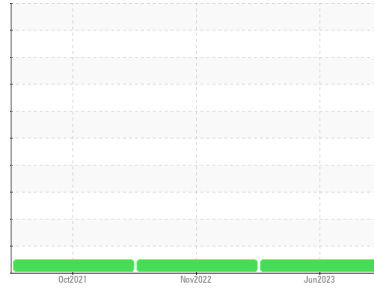




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
801177
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	GFL0063666	GFL0063551	GFL0020617	
Sample Date	Client Info	14 Jun 2023	21 Nov 2022	05 Oct 2021	
Machine Age	hrs	Client Info	17000	15406	13165
Oil Age	hrs	Client Info	600	1200	600
Oil Changed	Client Info	Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	---	0.0	---

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >50	10	17	11
Chromium	ppm	ASTM D5185(m) >4	<1	1	<1
Nickel	ppm	ASTM D5185(m) >2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	<1	1	<1
Silver	ppm	ASTM D5185(m) >3	0	0	0
Aluminum	ppm	ASTM D5185(m) >9	2	2	2
Lead	ppm	ASTM D5185(m) >30	<1	2	4
Copper	ppm	ASTM D5185(m) >35	1	2	9
Tin	ppm	ASTM D5185(m) >4	<1	<1	<1
Antimony	ppm	ASTM D5185(m)	0	0	<1
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m) 50	10	7	5
Barium	ppm	ASTM D5185(m) 5	0	<1	0
Molybdenum	ppm	ASTM D5185(m) 50	51	51	52
Manganese	ppm	ASTM D5185(m) 0	<1	1	<1
Magnesium	ppm	ASTM D5185(m) 560	548	526	570
Calcium	ppm	ASTM D5185(m) 1510	1559	1626	1489
Phosphorus	ppm	ASTM D5185(m) 780	703	714	712
Zinc	ppm	ASTM D5185(m) 870	881	895	922
Sulfur	ppm	ASTM D5185(m) 2040	2045	2067	1995
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >+100	4	9	3
Sodium	ppm	ASTM D5185(m)	9	19	3
Potassium	ppm	ASTM D5185(m) >20	3	22	<1

INFRA-RED

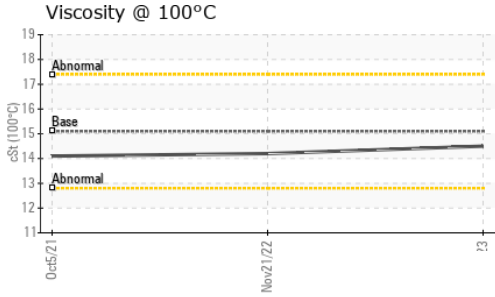
method	limit/base	current	history1	history2		
Soot %	%	ASTM D7844*	0	0	0	
Nitration	Abs/cm	ASTM D7624*	>20	11.6	11.9	12.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.8	25.5	26.0

FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.2	20.1	21.4



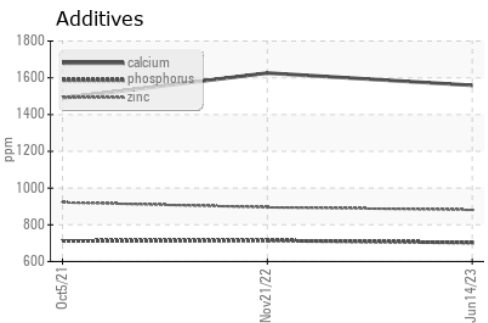
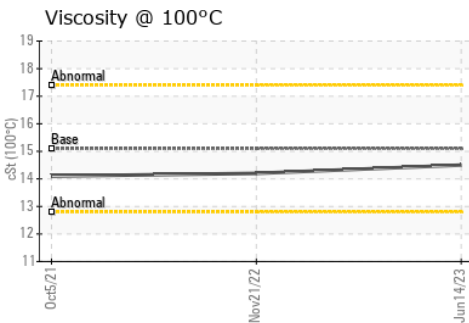
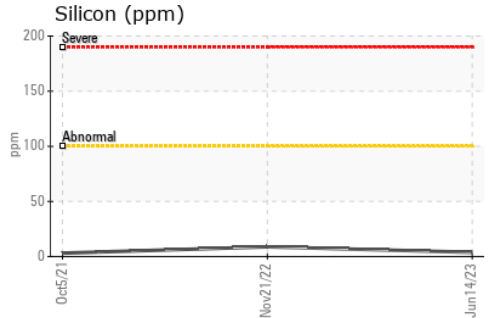
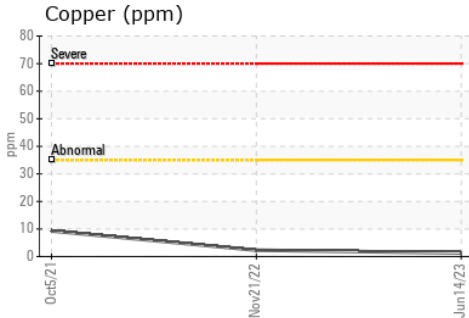
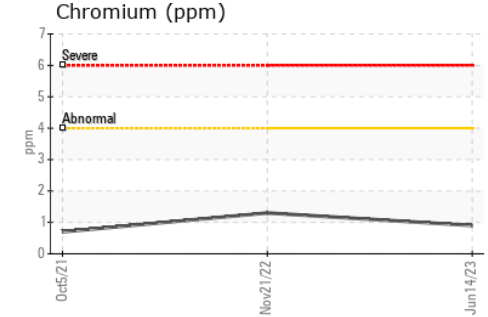
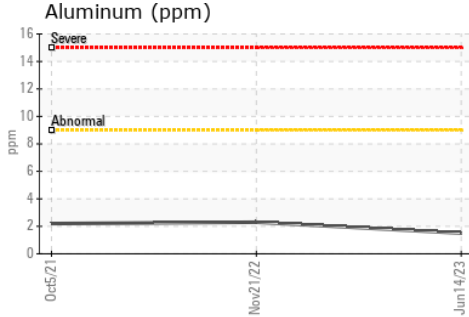
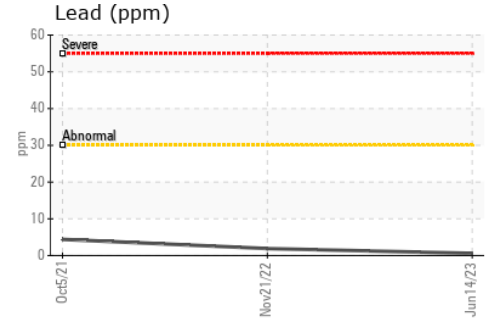
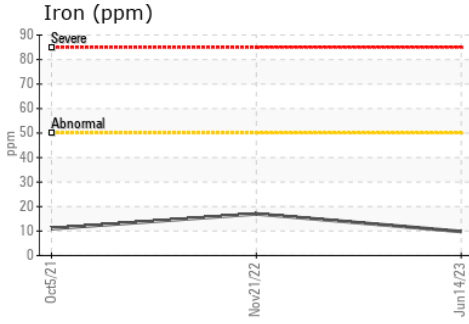
OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
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 D7279(m)	15.1	14.5	14.2	14.1

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 574 - Vancouver Fleet
Sample No. : GFL0063666 **Received** : 14 Jul 2023
Lab Number : 02570092 **Diagnosed** : 14 Jul 2023
Unique Number : 5607138 **Diagnostician** : Wes Davis
Test Package : MOB 1

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

70 Golden Drive,
 Coquitlam, BC
 CA V3K 6B5
 Contact: Allison Adams
 aadams@gflenv.com
 T: (604)529-4023
 F: