



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
901052
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (36)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0100331	GFL0100330	GFL0100311
Sample Date		Client Info		17 Jun 2024	10 Apr 2024	14 Dec 2023
Machine Age	kms	Client Info		130598	10034	9460
Oil Age	kms	Client Info		0	574	218
Filter Age	kms	Client Info		0	574	218
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	4	8	3
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	4	10	3
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	<1	1	1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

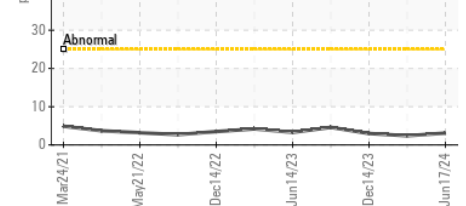
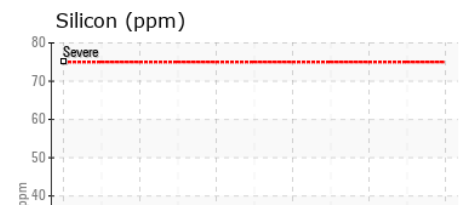
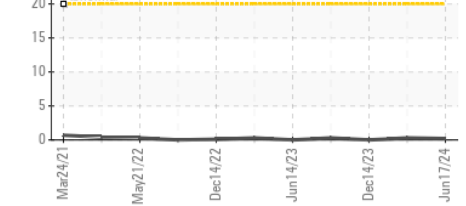
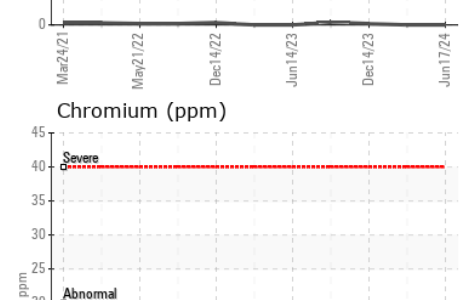
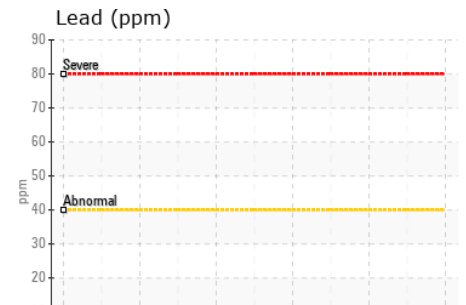
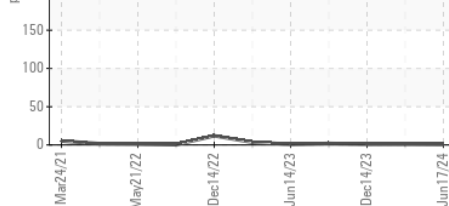
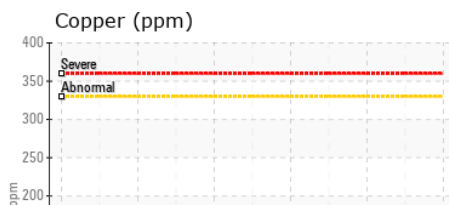
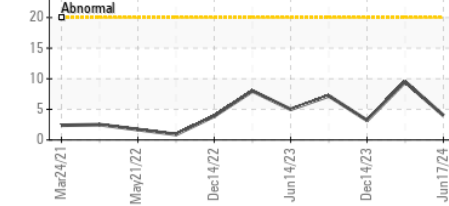
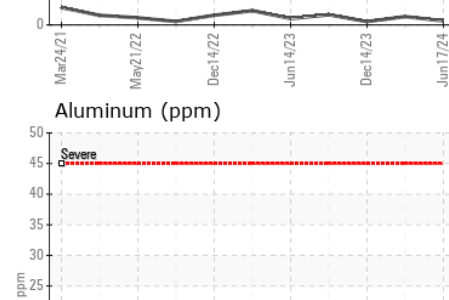
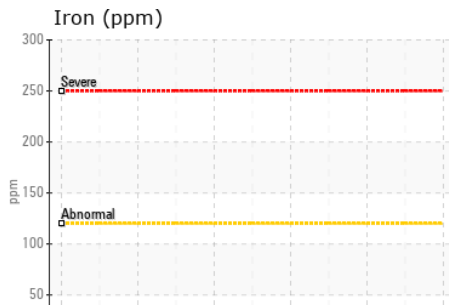
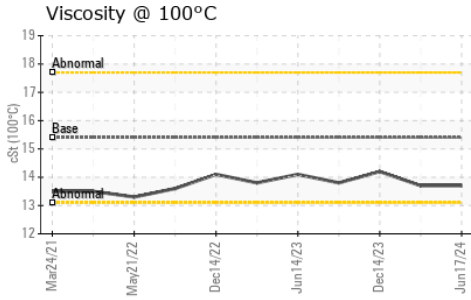
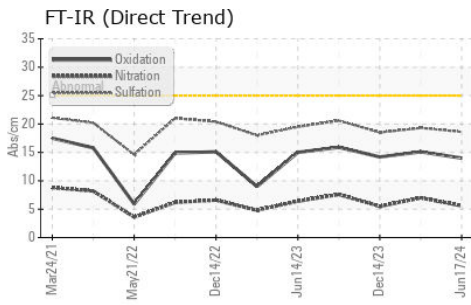
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	2	3
Potassium	ppm	ASTM D5185(m)	>20	4	8	2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	ASTM D7844*	>4	0.1	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	5.6	7.0	5.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.6	19.3	18.5
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		3	3	2
Boron	ppm	ASTM D5185(m)	0	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	55	60	59
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	880	977	952
Calcium	ppm	ASTM D5185(m)	1070	1049	1040	1034
Phosphorus	ppm	ASTM D5185(m)	1150	926	978	964
Zinc	ppm	ASTM D5185(m)	1270	1116	1168	1148
Sulfur	ppm	ASTM D5185(m)	2060	2466	2399	2495
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.0	15.1	14.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.7	13.7	14.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100331
Lab Number : 02642509
Unique Number : 5800048
Test Package : MOB 1
Received : 18 Jun 2024
Tested : 18 Jun 2024
Diagnosed : 18 Jun 2024 - Wes Davis

GFL Environmental - 556 - Whitecourt
 4138 - 42 Street,
 Whitecourt, AB
 CA T7S 1P1
 Contact: Kash Wagoner
 kwagoner@gflenv.com
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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.