



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
927064
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Unit has 4 liters Motorsilk engine treatment 1140 hours ago.)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0061145	GFL0101403	GFL0093800
Sample Date		Client Info		13 Jun 2024	07 Dec 2023	27 Sep 2023
Machine Age	hrs	Client Info		20355	19215	297265
Oil Age	hrs	Client Info		1140	0	0
Filter Age	hrs	Client Info		1140	0	0
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)	>100	16	5	6
Chromium	ppm	ASTM D5185(m)	>20	<1	0	0
Nickel	ppm	ASTM D5185(m)	>4	1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	4	1	2
Lead	ppm	ASTM D5185(m)	>40	4	1	3
Copper	ppm	ASTM D5185(m)	>330	1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

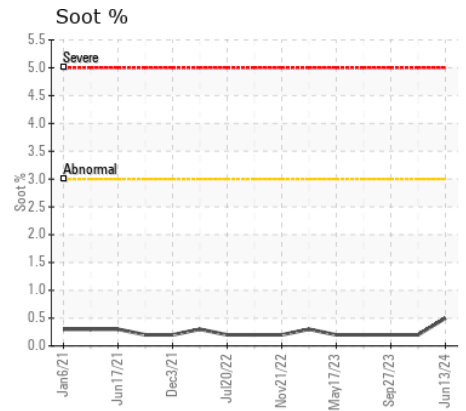
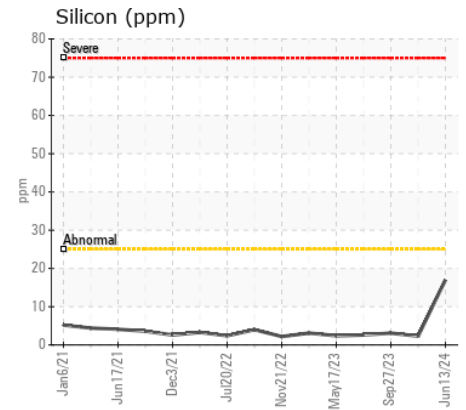
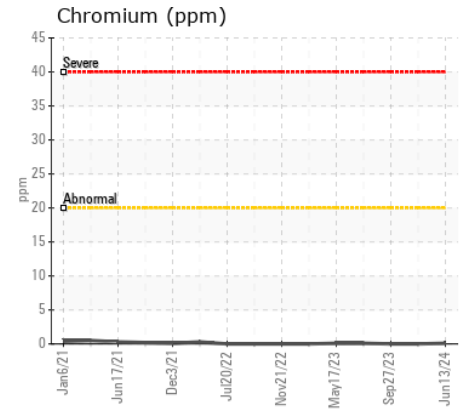
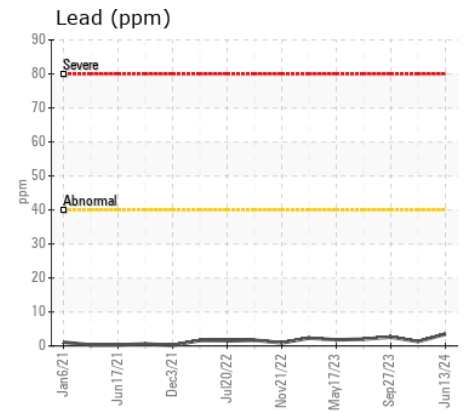
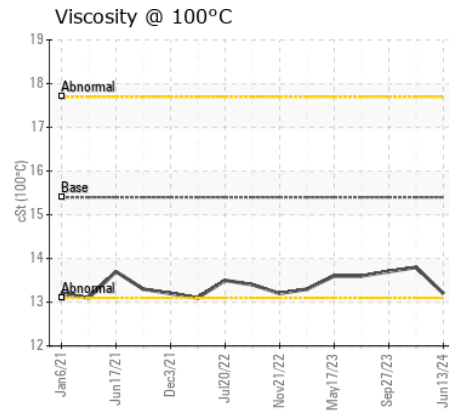
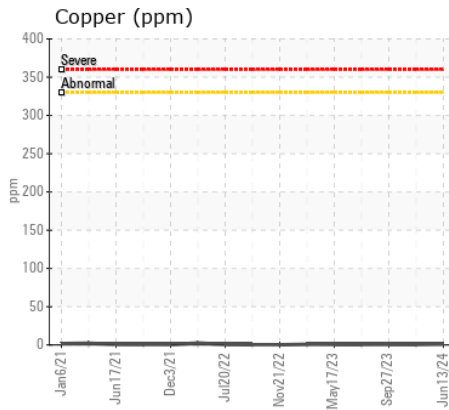
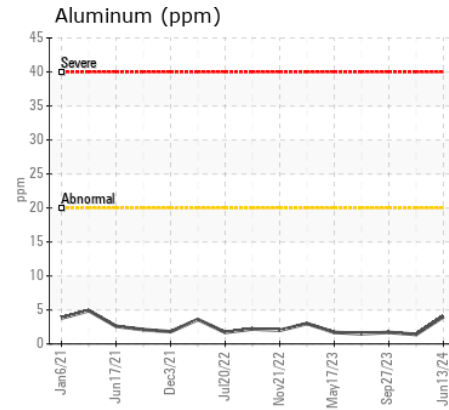
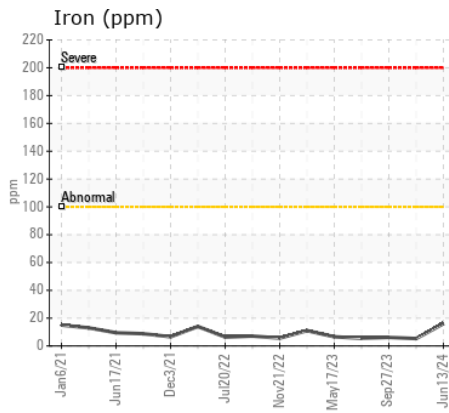
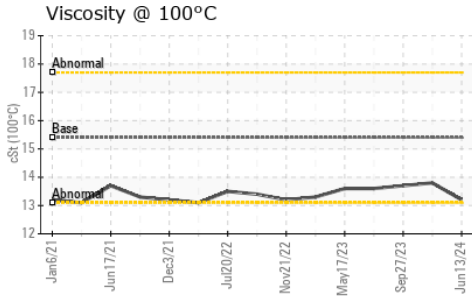
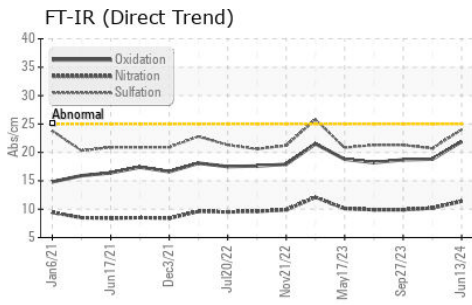
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	17	2	3
Potassium	ppm	ASTM D5185(m)	>20	2	0	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.5	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	11.4	10.2	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.0	20.7	21.3
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)		8	4	5
Boron	ppm	ASTM D5185(m)	0	25	2	5
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	68	60	62
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	888	976	980
Calcium	ppm	ASTM D5185(m)	1070	1174	1072	1069
Phosphorus	ppm	ASTM D5185(m)	1150	1005	1002	1008
Zinc	ppm	ASTM D5185(m)	1270	1214	1192	1206
Sulfur	ppm	ASTM D5185(m)	2060	2512	2463	2465
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.9	18.8	18.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.2	13.8	13.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0061145 **Received** : 14 Jun 2024
Lab Number : 02641940 **Tested** : 14 Jun 2024
Unique Number : 5799479 **Diagnosed** : 14 Jun 2024 - Kevin Marson
Test Package : MOB 1

GFL Environmental - 216
 15 Bermondsey Road
 Toronto, ON
 CA M4B 1Y9
 Contact: Tom Hatzioannidis
 thatzioannidis@gflenv.com
 T: (416)678-9340
 F:

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.