



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
OR896
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112561	GFL0102611	GFL0102623
Sample Date		Client Info		17 Apr 2024	04 Mar 2024	25 Jan 2024
Machine Age	hrs	Client Info		1261253	22143	21724
Oil Age	hrs	Client Info		0	469	500
Filter Age	hrs	Client Info		0	469	500
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	5	16	22
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	1	2
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	<1	1	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

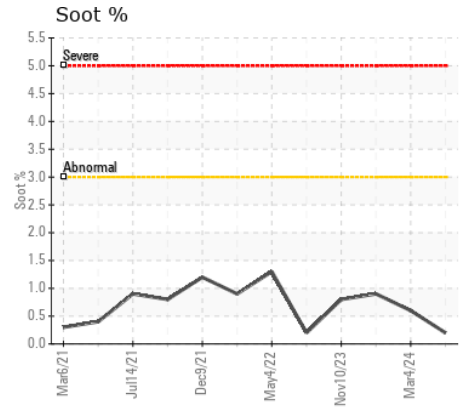
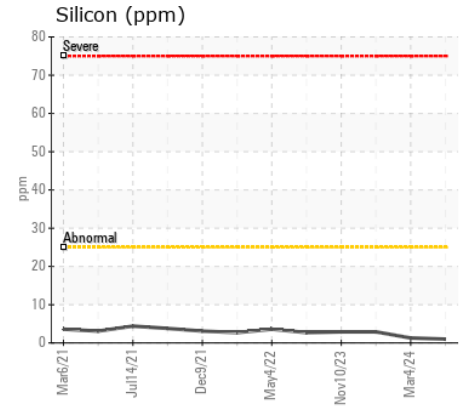
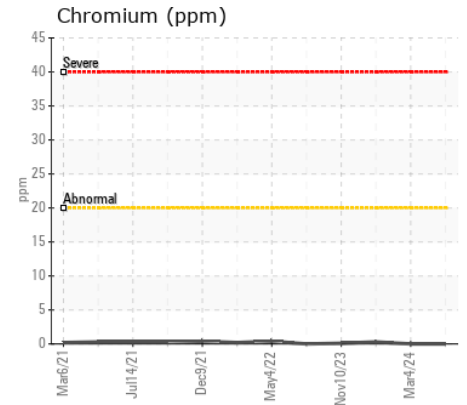
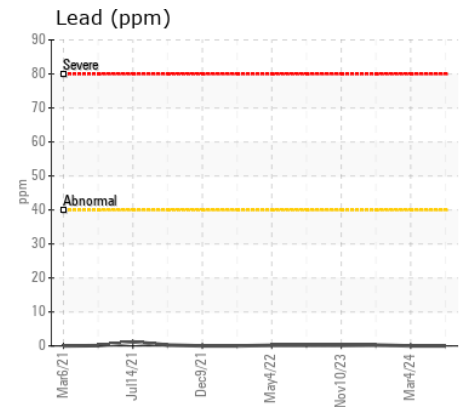
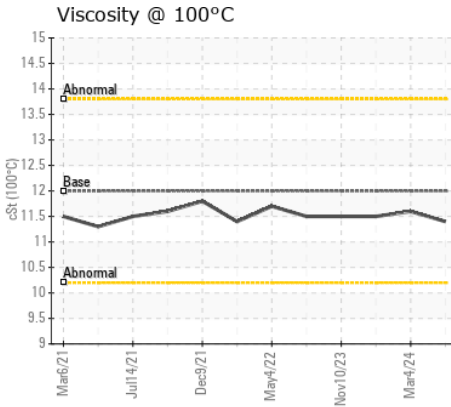
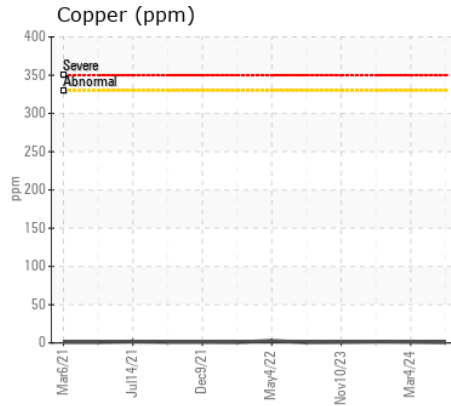
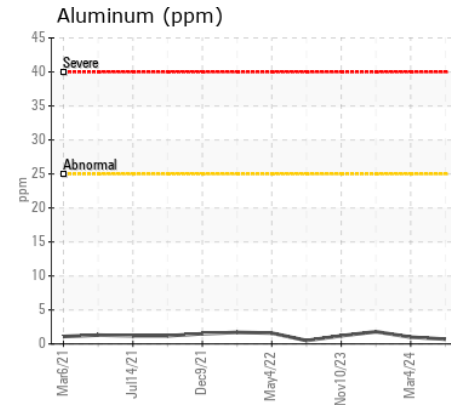
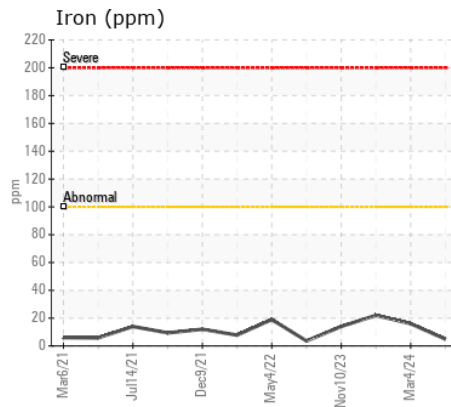
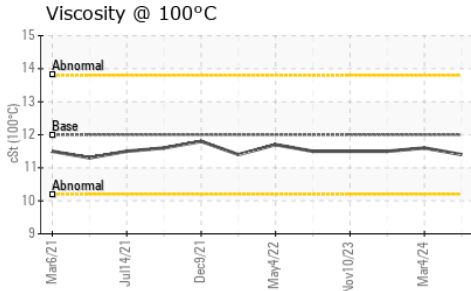
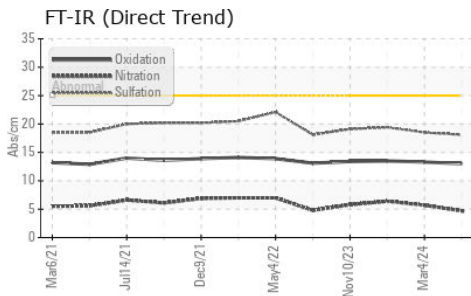
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	1	3
Potassium	ppm	ASTM D5185(m)	>20	2	4	4
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	0.2	0.6	0.9
Nitration	Abs/cm	ASTM D7624*	>20	4.7	5.7	6.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1	18.5	19.4
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)		20	44	41
Boron	ppm	ASTM D5185(m)	2	3	<1	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	59	60	60
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	950	946	947	935
Calcium	ppm	ASTM D5185(m)	1050	1036	1043	1069
Phosphorus	ppm	ASTM D5185(m)	995	978	959	972
Zinc	ppm	ASTM D5185(m)	1180	1143	1146	1151
Sulfur	ppm	ASTM D5185(m)	2600	2554	2432	2635
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	13.3	13.5
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.4	11.6	11.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112561
Lab Number : 02631566
Unique Number : 5772719
Test Package : MOB 1
Received : 26 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 26 Apr 2024 - Wes Davis

GFL Environmental - 554 - Edmonton SW
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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.