



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
401100
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0096769	GFL0084124	GFL0084149
Sample Date		Client Info		26 Jun 2024	06 Sep 2023	14 Aug 2023
Machine Age	kms	Client Info		1348780	21181	20485
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	600	600
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	22	22	35
Chromium	ppm	ASTM D5185(m)	>20	1	2	3
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	4	5
Lead	ppm	ASTM D5185(m)	>40	4	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<1	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

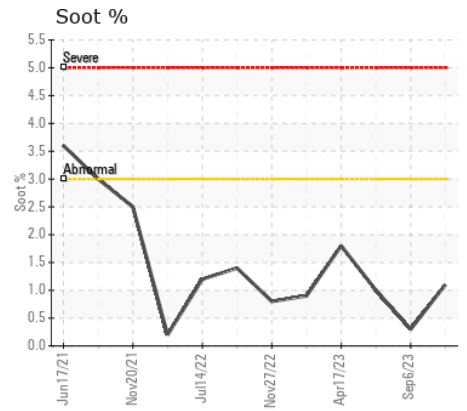
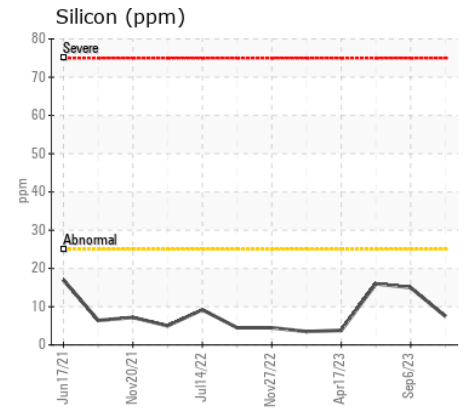
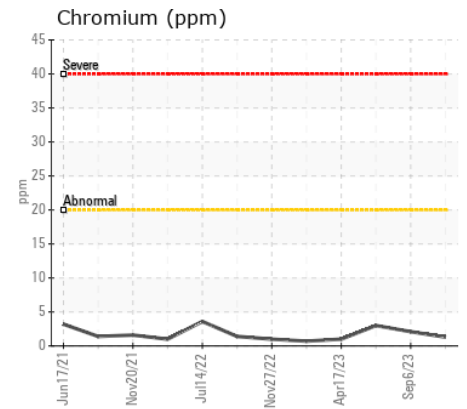
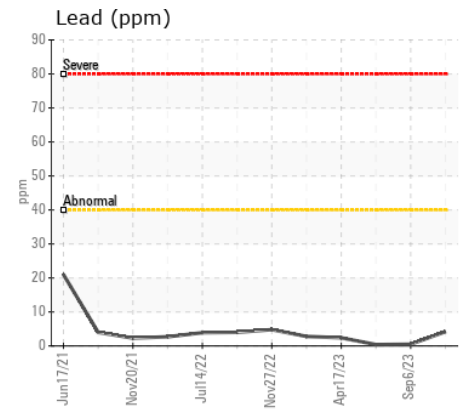
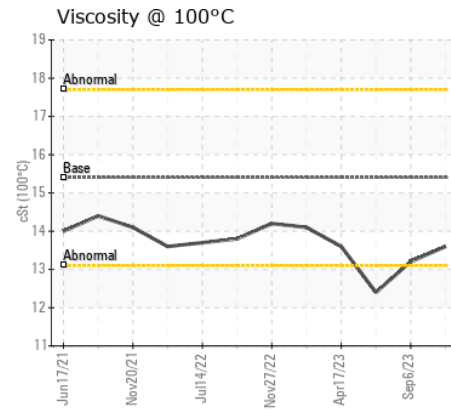
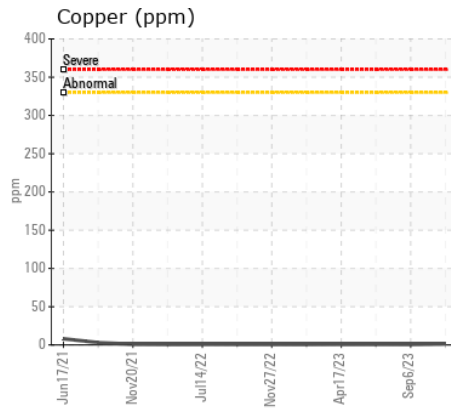
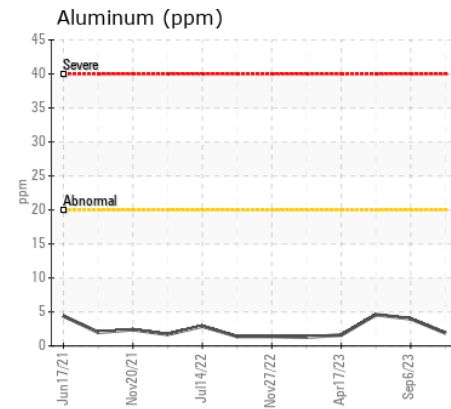
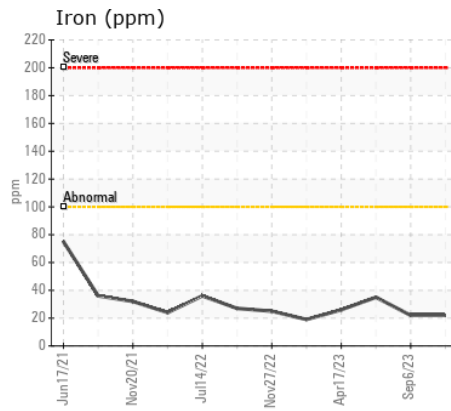
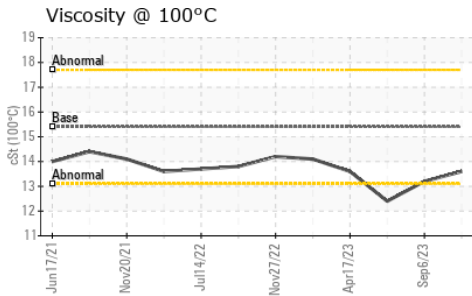
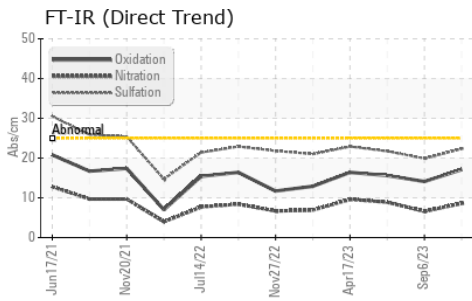
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	15	16
Potassium	ppm	ASTM D5185(m)	>20	<1	1	2
Fuel		WC Method	>5	<1.0	<1.0	▲ 3.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	1.1	0.3	1
Nitration	Abs/cm	ASTM D7624*	>20	8.6	6.6	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	19.9	21.7
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)		4	3	4
Boron	ppm	ASTM D5185(m)	0	2	4	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	62	58	60
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	1032	958	971
Calcium	ppm	ASTM D5185(m)	1070	1107	1027	1043
Phosphorus	ppm	ASTM D5185(m)	1150	1032	1061	1061
Zinc	ppm	ASTM D5185(m)	1270	1263	1167	1193
Sulfur	ppm	ASTM D5185(m)	2060	2594	2613	2621
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.1	14.1	15.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.6	13.2	12.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0096769
Lab Number : 02644760
Unique Number : 5802299
Test Package : MOB 1

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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.