



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
801208
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		GFL0097294	GFL0097283	GFL0097288
Sample Date		Client Info		07 Jun 2024	08 Mar 2024	19 Jan 2024
Machine Age	hrs	Client Info		10864	10482	10266
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	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)	>90	22	17	40
Chromium	ppm	ASTM D5185(m)	>20	1	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	6	4	8
Lead	ppm	ASTM D5185(m)	>40	0	0	0
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

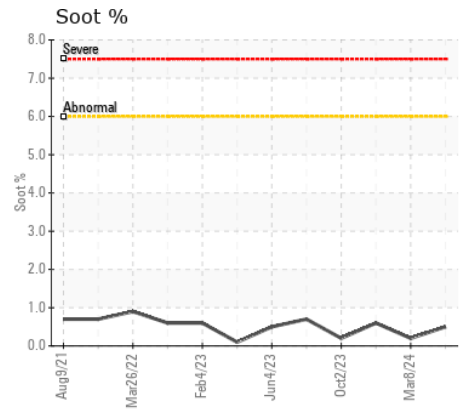
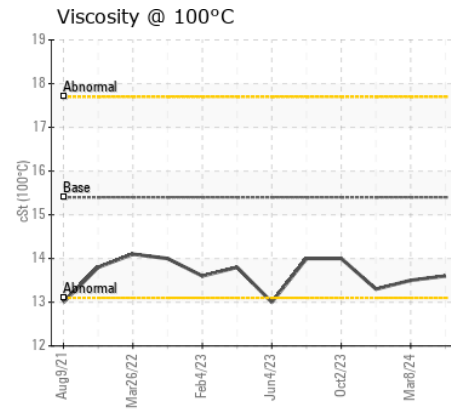
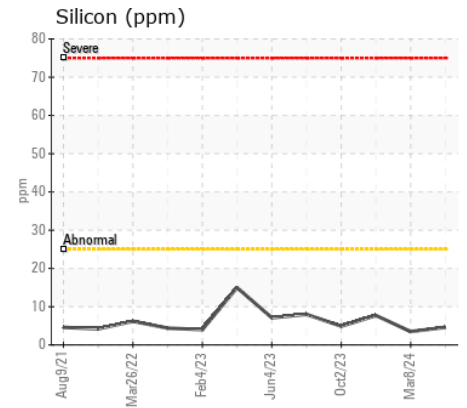
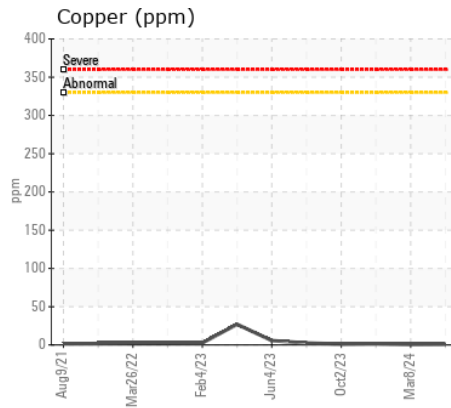
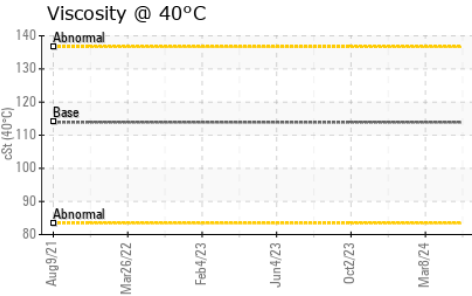
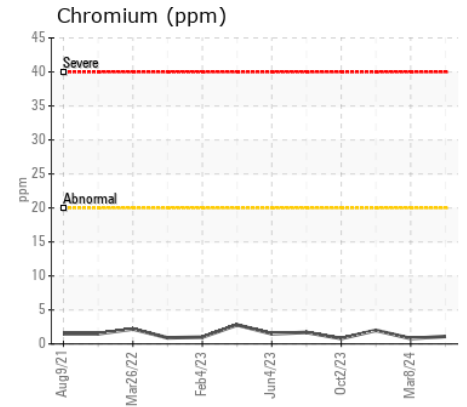
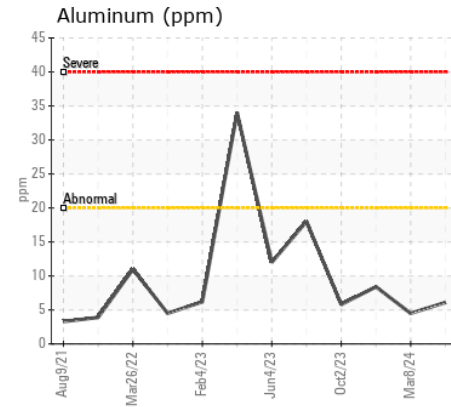
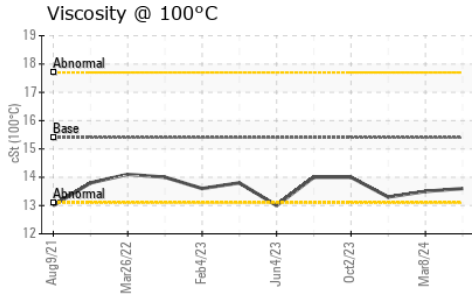
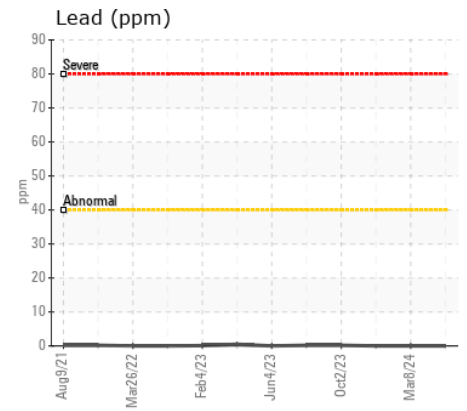
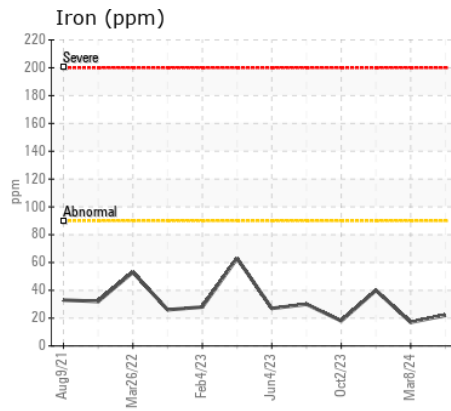
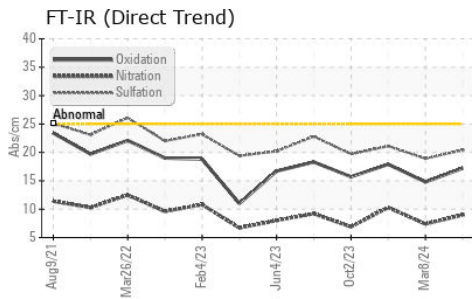
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	4	8
Potassium	ppm	ASTM D5185(m)	>20	4	3	7
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>6	0.5	0.2	0.6
Nitration	Abs/cm	ASTM D7624*	>20	9.0	7.4	10.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.4	18.9	21.1
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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)		7	5	11
Boron	ppm	ASTM D5185(m)	0	3	3	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	57	60
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	957	932	948
Calcium	ppm	ASTM D5185(m)	1070	1068	1035	1054
Phosphorus	ppm	ASTM D5185(m)	1150	1000	1003	986
Zinc	ppm	ASTM D5185(m)	1270	1207	1163	1166
Sulfur	ppm	ASTM D5185(m)	2060	2489	2668	2526
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.2	14.8	17.9
Visc @ 40°C	cSt	ASTM D7279(m)	113.9	98.1	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.6	13.5	13.3
Viscosity Index (VI)	Scale	ASTM D2270*	142	139	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0097294
Lab Number : 02642546
Unique Number : 5800085
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

GFL Environmental - 558 - Grand Prairie
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 Grande Prairie, AB
 CA T8W 6T2
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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.