



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
215001
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (10 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0126251	GFL0113271	GFL0097524
Sample Date		Client Info		01 Jul 2024	14 Apr 2024	09 Jan 2024
Machine Age	kms	Client Info		210880	192066	192066
Oil Age	kms	Client Info		9642	0	9442
Filter Age	kms	Client Info		9642	0	9442
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	17	13	14
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	4	3	4
Lead	ppm	ASTM D5185(m)	>40	3	2	3
Copper	ppm	ASTM D5185(m)	>330	1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

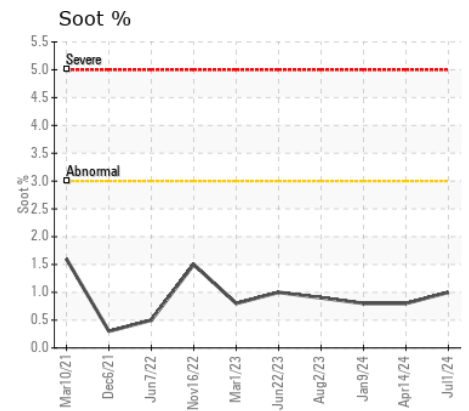
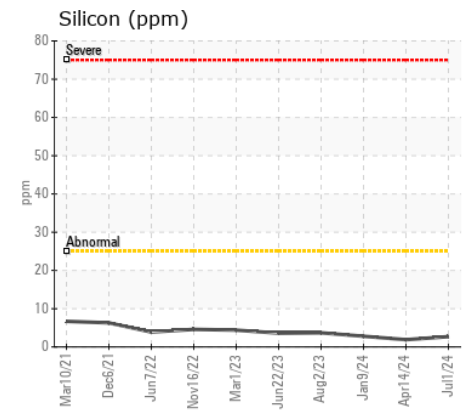
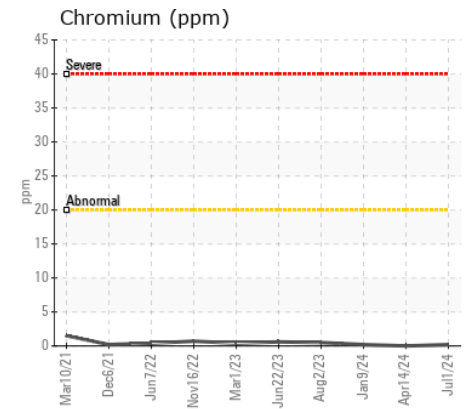
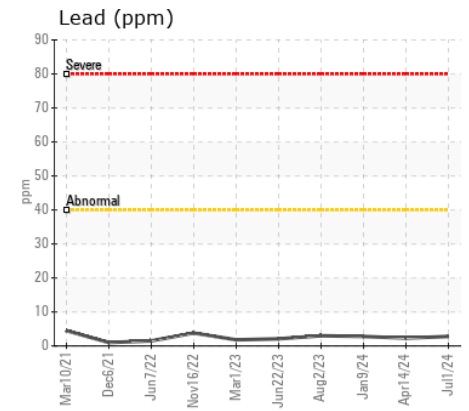
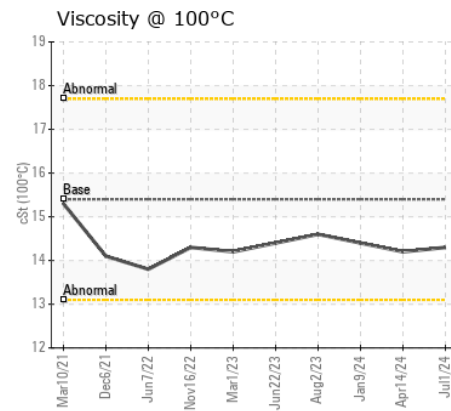
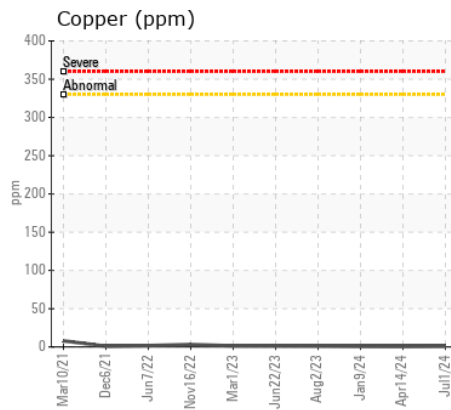
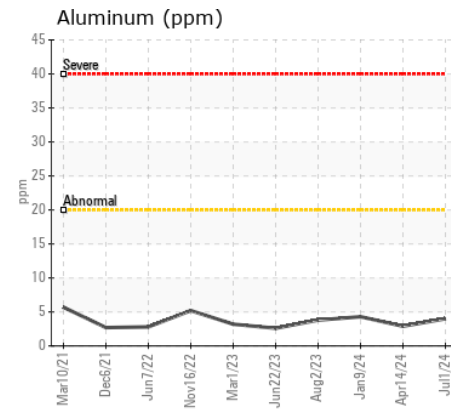
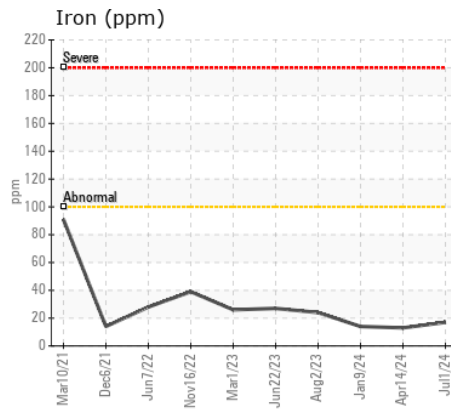
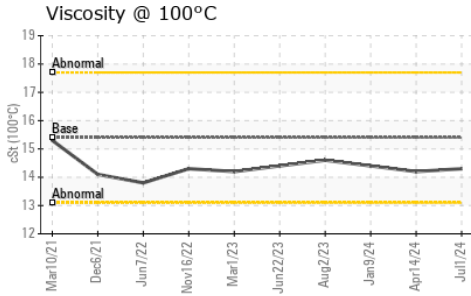
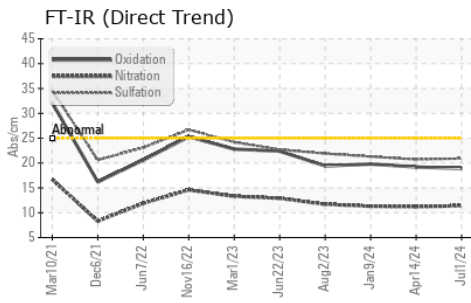
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	2	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<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	1	0.8	0.8
Nitration	Abs/cm	ASTM D7624*	>20	11.4	11.2	11.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.9	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)		2	2	1
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	62	59
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	944	1011	943
Calcium	ppm	ASTM D5185(m)	1070	1059	1101	1035
Phosphorus	ppm	ASTM D5185(m)	1150	981	1030	983
Zinc	ppm	ASTM D5185(m)	1270	1207	1233	1165
Sulfur	ppm	ASTM D5185(m)	2060	2434	2528	2512
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.9	19.2	19.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.3	14.2	14.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0126251 **Received** : 05 Jul 2024
Lab Number : 02645839 **Tested** : 05 Jul 2024
Unique Number : 5803378 **Diagnosed** : 05 Jul 2024 - Wes Davis
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.