



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
7752
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0107861	GFL0101073	GFL0090573
Sample Date		Client Info		03 Jan 2024	31 Oct 2023	22 Aug 2023
Machine Age	kms	Client Info		136813	134434	132173
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	15	21	20
Chromium	ppm	ASTM D5185(m)	>5	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>150	1	4	9
Copper	ppm	ASTM D5185(m)	>90	<1	3	9
Tin	ppm	ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

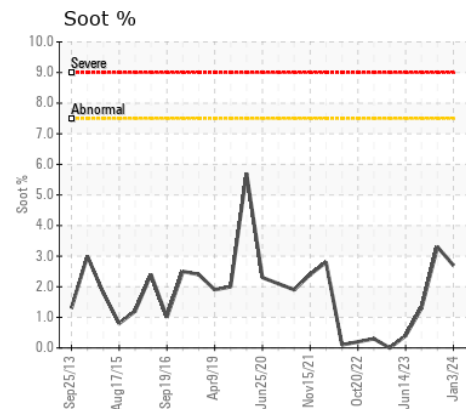
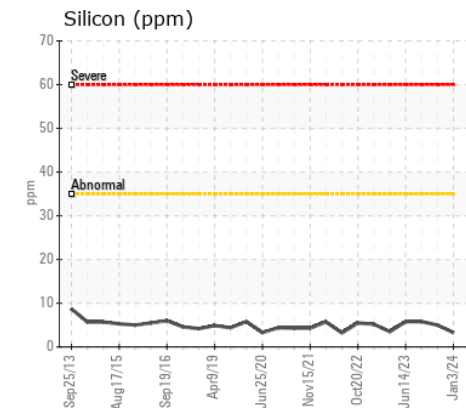
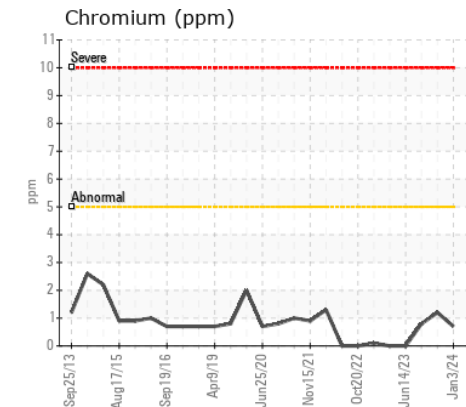
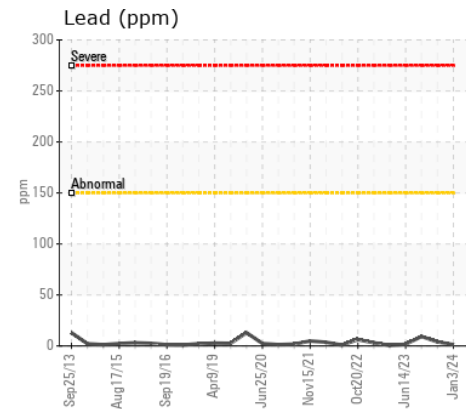
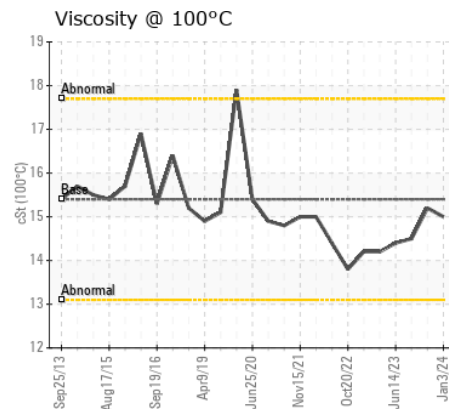
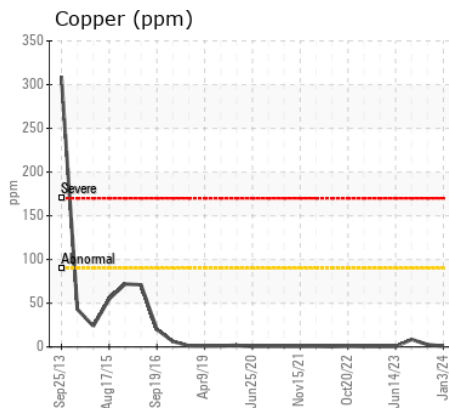
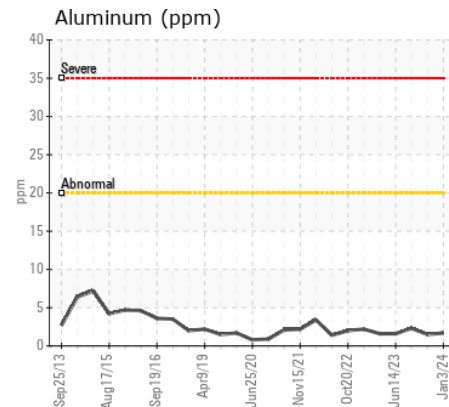
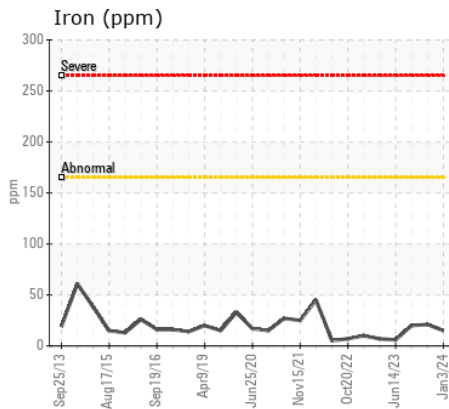
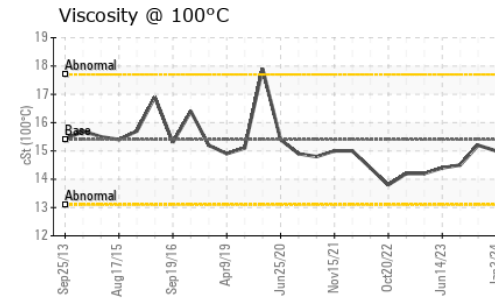
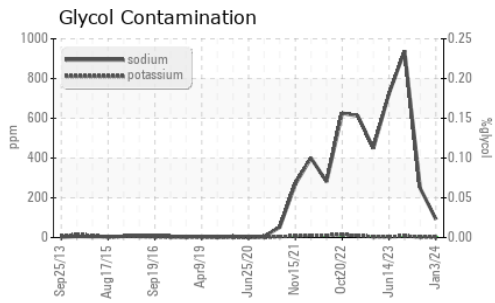
Test for glycol is negative. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	3	5	6
Potassium	ppm	ASTM D5185(m)	>20	2	3	8
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*	>7.5	2.7	3.3	1.3
Nitration	Abs/cm	ASTM D7624*	>20	12.0	15.2	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.4	30.5	24.3
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)		92	▲ 248	▲ 939
Boron	ppm	ASTM D5185(m)	0	1	2	2
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	59	65	60
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	943	1033	923
Calcium	ppm	ASTM D5185(m)	1070	1028	1136	1012
Phosphorus	ppm	ASTM D5185(m)	1150	996	1046	1039
Zinc	ppm	ASTM D5185(m)	1270	1177	1275	1155
Sulfur	ppm	ASTM D5185(m)	2060	2657	2609	2527
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.1	24.5	17.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	15.0	15.2	14.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 225 - COT(D2)**
Sample No. : GFL0107861 **Received** : 08 Jan 2024
Lab Number : 02606891 **Diagnosed** : 08 Jan 2024
Unique Number : 5707977 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)
 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.