

Machine Id
7751
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		GFL0126628	GFL011129	GFL0099458
Sample Date		Client Info		24 Jun 2024	31 Jan 2024	26 Oct 2023
Machine Age	kms	Client Info		68237	64093	61292
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	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>165	13	22	19
Chromium	ppm	ASTM D5185(m)	>5	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<1	2	<1
Lead	ppm	ASTM D5185(m)	>150	<1	2	3
Copper	ppm	ASTM D5185(m)	>90	<1	2	2
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

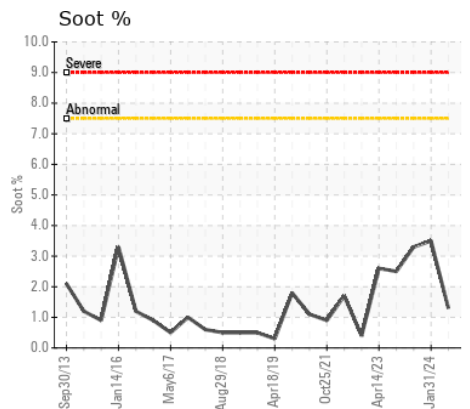
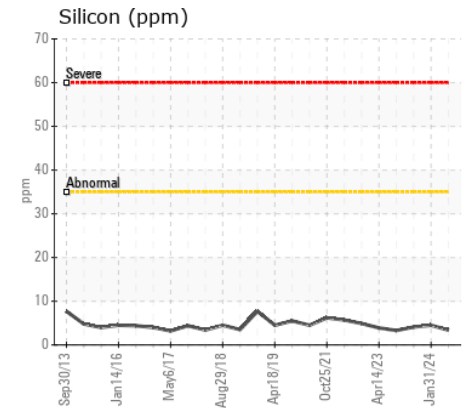
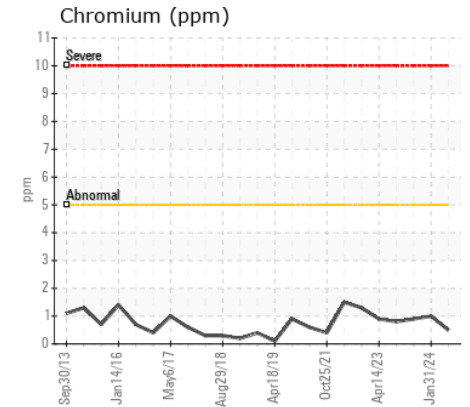
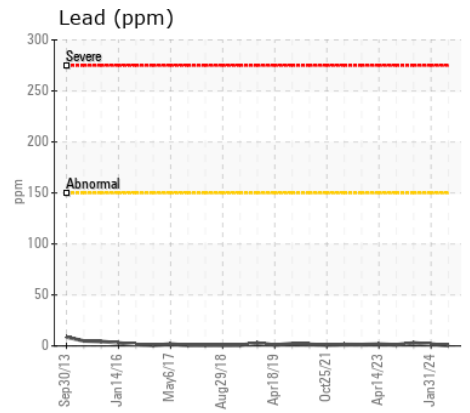
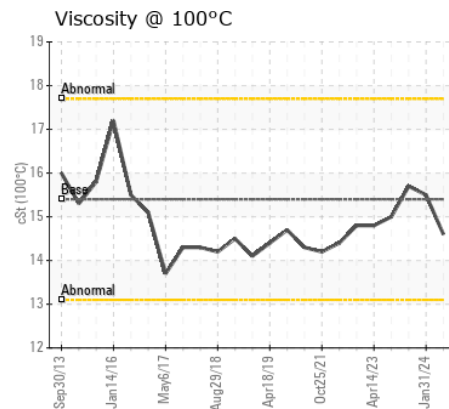
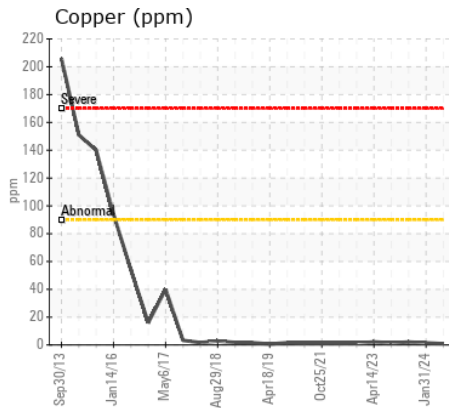
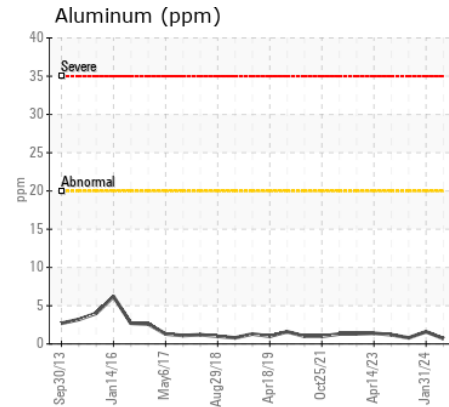
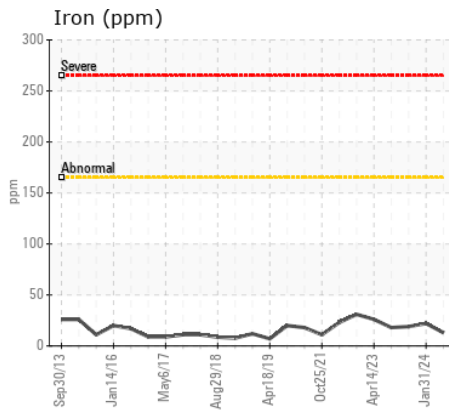
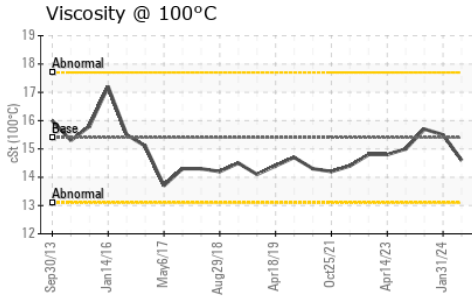
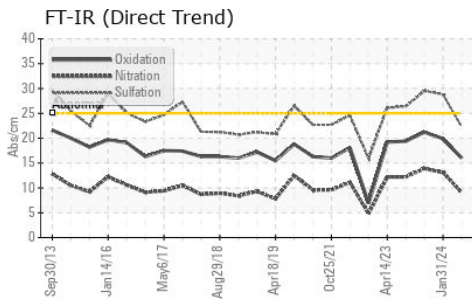
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	3	4	4
Potassium	ppm	ASTM D5185(m)	>20	<1	2	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>7.5	1.3	3.5	3.3
Nitration	Abs/cm	ASTM D7624*	>20	9.1	13.1	13.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	28.8	29.5
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)		15	76	74
Boron	ppm	ASTM D5185(m)	0	3	2	3
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	60	61	63
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	966	976	987
Calcium	ppm	ASTM D5185(m)	1070	1046	1066	1091
Phosphorus	ppm	ASTM D5185(m)	1150	1001	1013	980
Zinc	ppm	ASTM D5185(m)	1270	1200	1186	1220
Sulfur	ppm	ASTM D5185(m)	2060	2516	2619	2393
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.0	19.9	21.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.6	15.5	15.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0126628
Lab Number : 02644286
Unique Number : 5801825
Test Package : MOB 1

GFL Environmental - 225 - COT(D2)
 20 Brydon Drive
 Etobicoke, ON
 CA M9W 5R6
 Contact: Rick Philip
 rphilip@gflenv.com
 T: (416)745-8080
 F:

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.