

Machine Id
7765
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		GFL0118298	GFL0103091	GFL0090559
Sample Date		Client Info		16 May 2024	23 Nov 2023	05 Sep 2023
Machine Age	kms	Client Info		213234	206608	203442
Oil Age	kms	Client Info		206608	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

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	4	5	7
Chromium	ppm	ASTM D5185(m)	>5	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	<1
Lead	ppm	ASTM D5185(m)	>150	0	<1	1
Copper	ppm	ASTM D5185(m)	>90	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

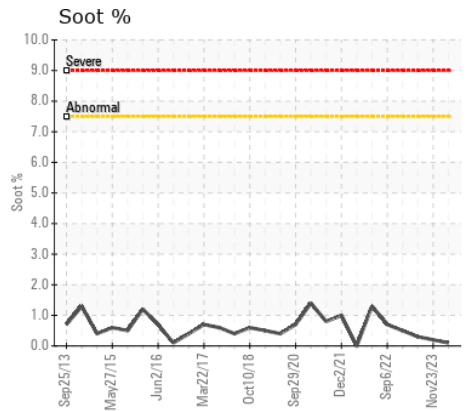
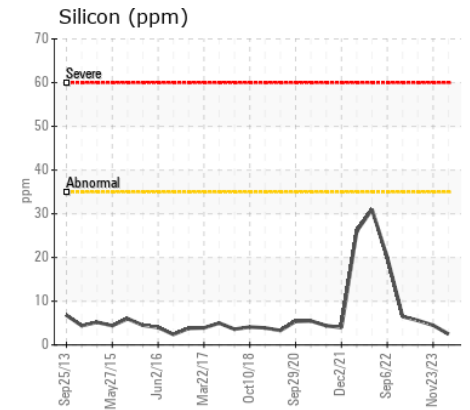
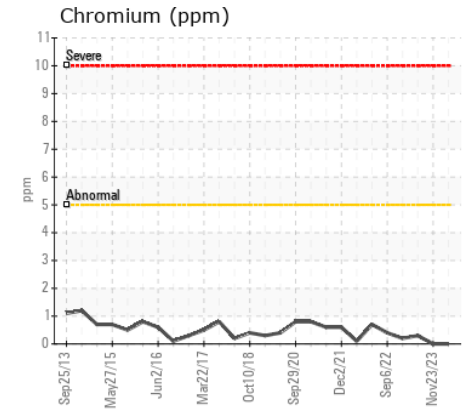
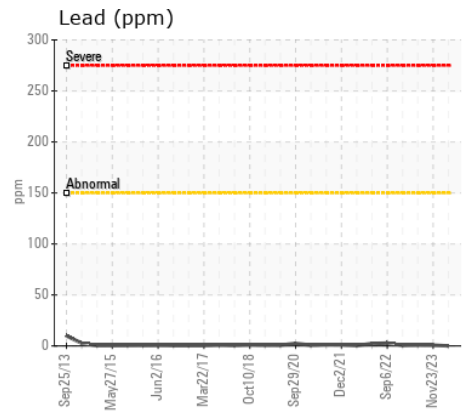
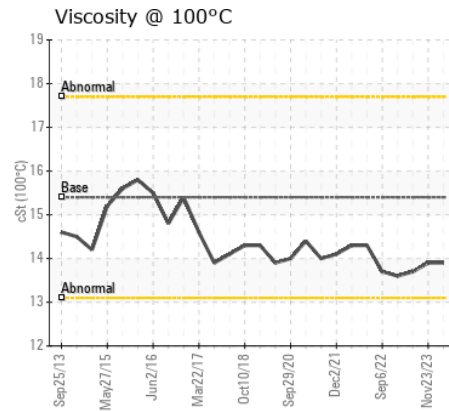
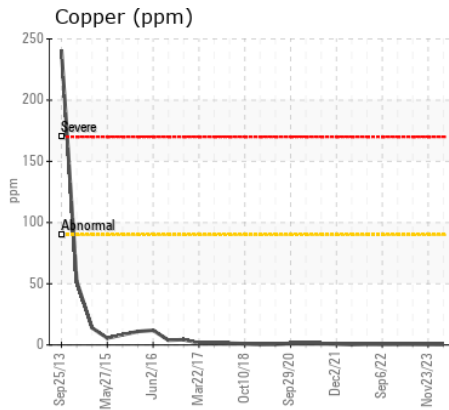
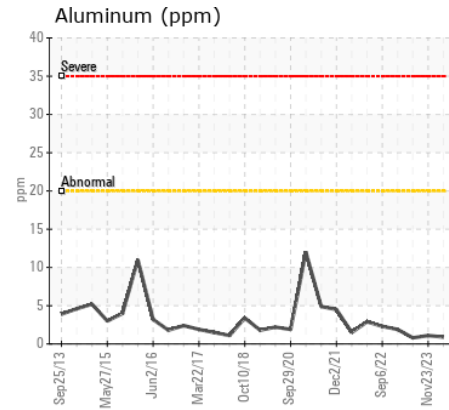
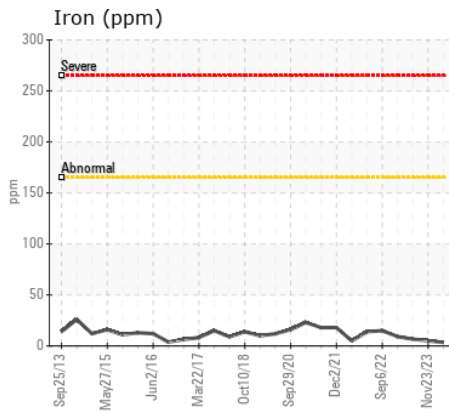
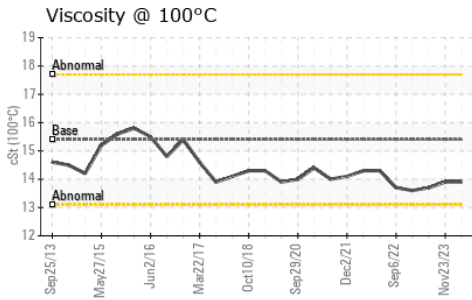
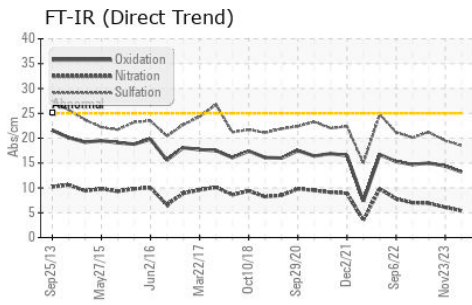
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	2	4	6
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<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	0.1	0.2	0.3
Nitration	Abs/cm	ASTM D7624*	>20	5.4	6.1	6.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.5	19.5	21.2
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)		5	12	10
Boron	ppm	ASTM D5185(m)	0	4	2	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	60	60
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	971	982	988
Calcium	ppm	ASTM D5185(m)	1070	1048	1076	1059
Phosphorus	ppm	ASTM D5185(m)	1150	993	981	1006
Zinc	ppm	ASTM D5185(m)	1270	1192	1200	1186
Sulfur	ppm	ASTM D5185(m)	2060	2592	2485	2422
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.2	14.4	15.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.9	13.9	13.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0118298
Lab Number : 02636531
Unique Number : 5785693
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.