



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
4443
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0086796	GFL0094395	GFL0042865
Sample Date		Client Info		04 Jan 2024	20 Oct 2023	04 May 2023
Machine Age	hrs	Client Info		29285	661473	71288
Oil Age	hrs	Client Info		600	0	0
Filter Age	hrs	Client Info		600	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	7	4	30
Chromium	ppm	ASTM D5185(m)	>20	0	0	1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	3	5
Lead	ppm	ASTM D5185(m)	>40	<1	<1	0
Copper	ppm	ASTM D5185(m)	>330	1	<1	1
Tin	ppm	ASTM D5185(m)	>15	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

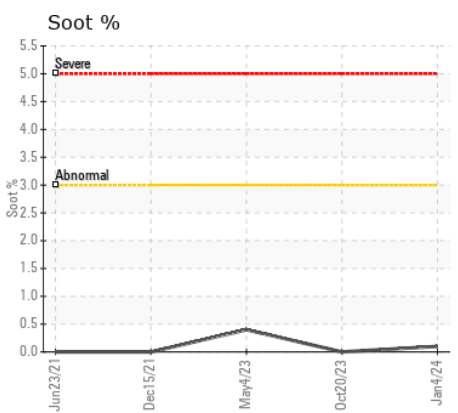
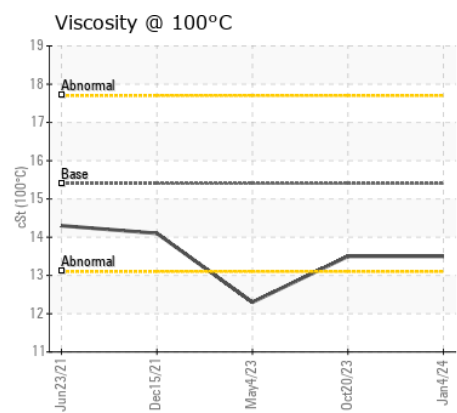
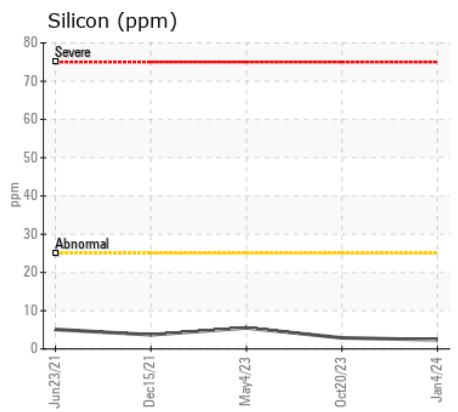
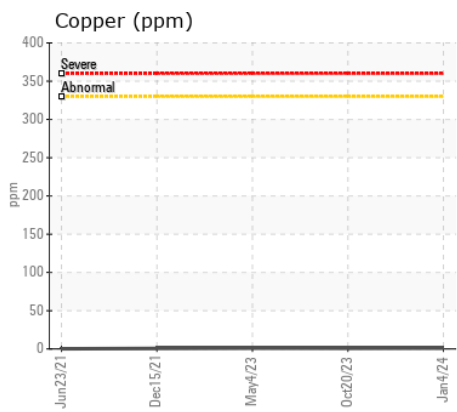
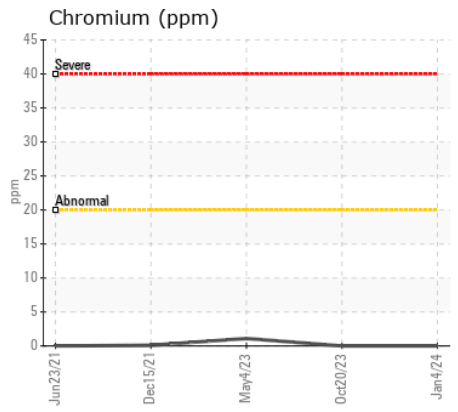
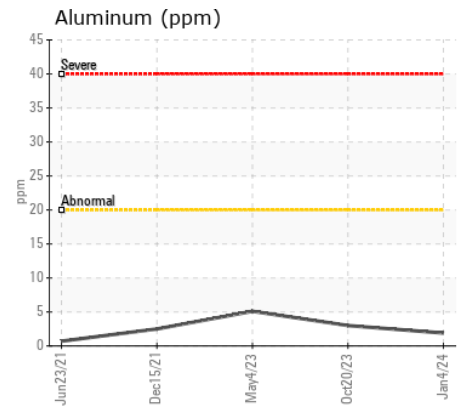
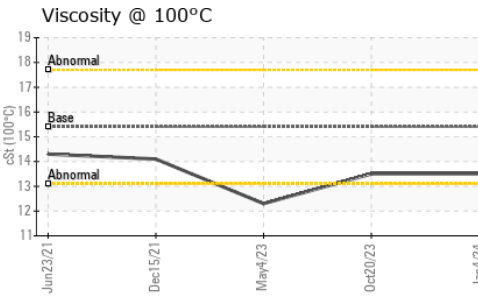
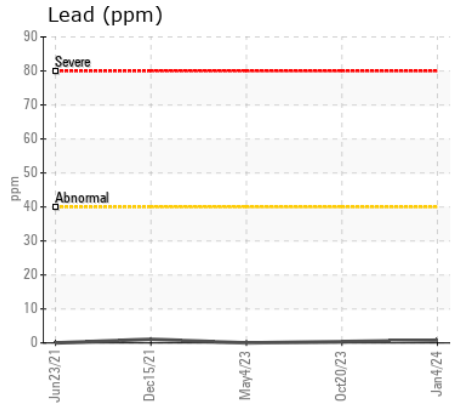
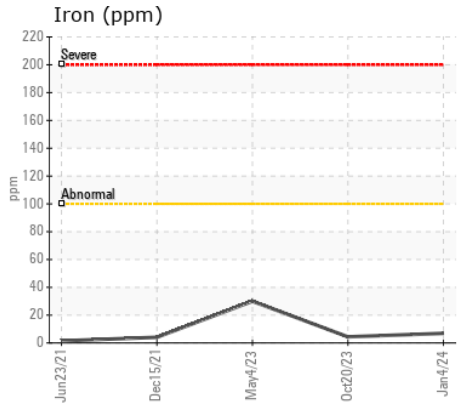
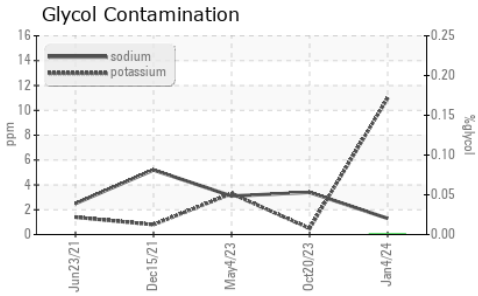
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	3	6
Potassium	ppm	ASTM D5185(m)	>20	11	<1	3
Fuel		WC Method	>5	<1.0	<1.0	1.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	0	0.4
Nitration	Abs/cm	ASTM D7624*	>20	7.3	8.9	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1	18.8	22.5
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)		1	3	3
Boron	ppm	ASTM D5185(m)	0	7	35	28
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	61	80	53
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	856	55	286
Calcium	ppm	ASTM D5185(m)	1070	1202	2162	2120
Phosphorus	ppm	ASTM D5185(m)	1150	1001	1016	1136
Zinc	ppm	ASTM D5185(m)	1270	1179	1170	1255
Sulfur	ppm	ASTM D5185(m)	2060	2819	3112	2974
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.5	14.2	18.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.5	13.5	▲ 12.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0086796 **Received** : 05 Jan 2024
Lab Number : 02606684 **Diagnosed** : 05 Jan 2024
Unique Number : 5707770 **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.

GFL Environmental - 222 - Sandhill
 SANDHILL DISPOSAL & RECYCLING DIVIS, 19 COMMERCE ROAD
 ORANGEVILLE, ON
 CA L9W 3X5
 Contact: GLENN COOK
 gcook@gflenv.com
 T: (519)940-4167
 F: