



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
800027
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (20 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0102714	GFL0094512	GFL0088978
Sample Date		Client Info		10 Jan 2024	27 Oct 2023	14 Aug 2023
Machine Age	hrs	Client Info		16282	15675	15100
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	26	26	29
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	3	<1	1
Lead	ppm	ASTM D5185(m)	>25	<1	<1	0
Copper	ppm	ASTM D5185(m)	>100	<1	<1	1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

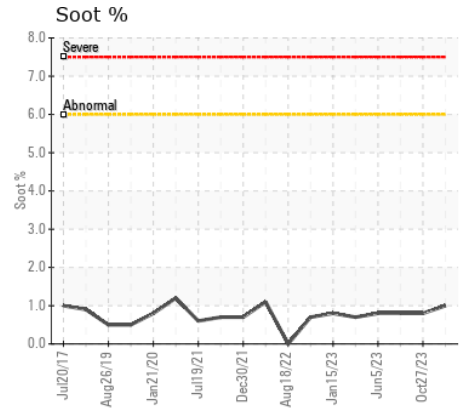
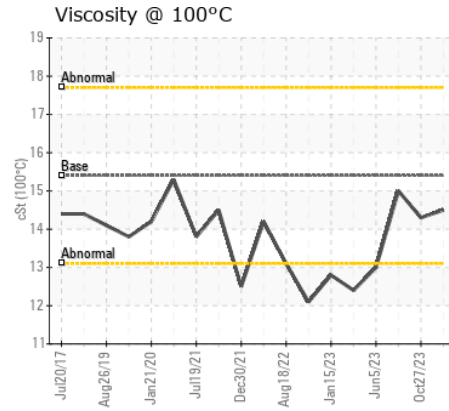
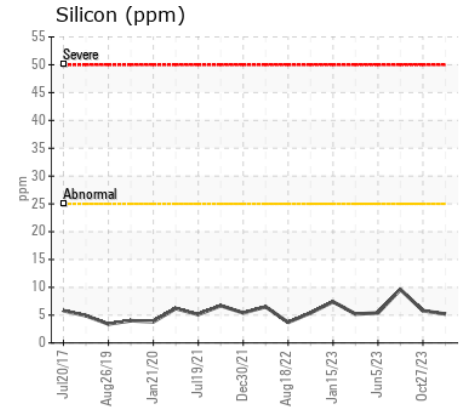
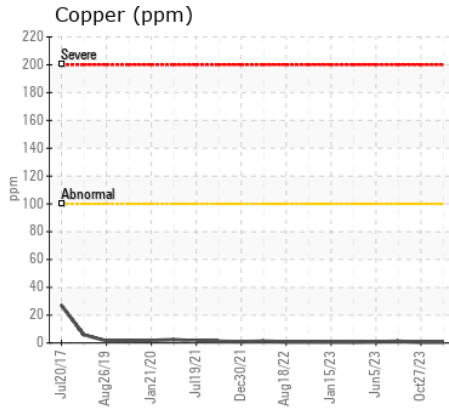
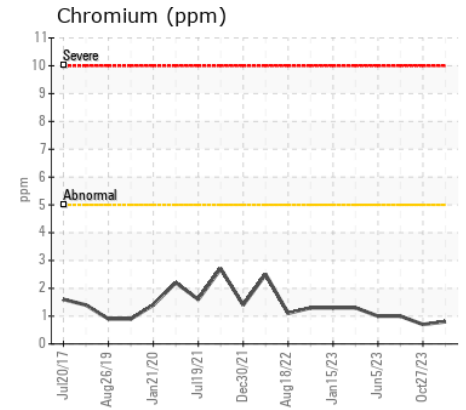
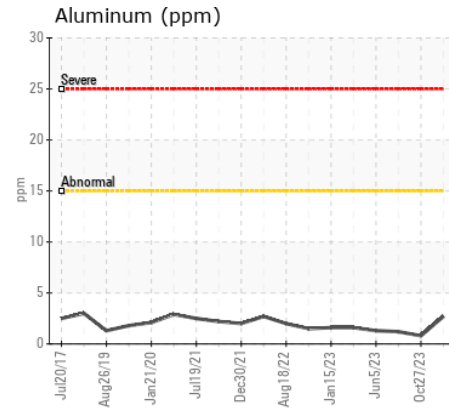
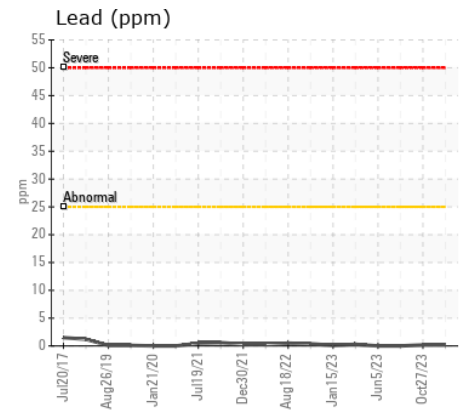
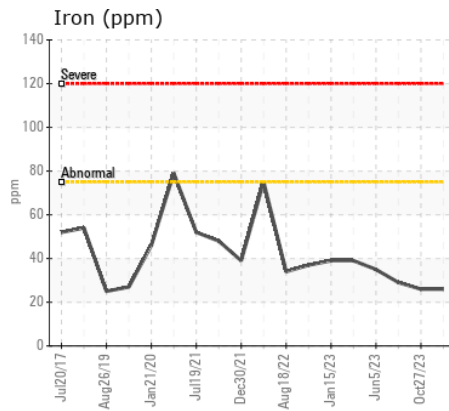
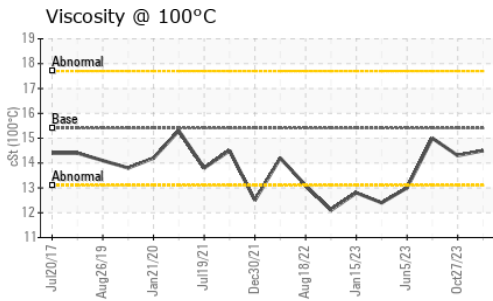
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	6	10
Potassium	ppm	ASTM D5185(m)	>20	1	0	<1
Fuel		WC Method	>3.0	<1.0	<1.0	▲ 1.9
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	1	0.8	0.8
Nitration	Abs/cm	ASTM D7624*	>20	11.6	10.8	12.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.0	23.8	26.2
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)		6	7	7
Boron	ppm	ASTM D5185(m)	0	2	2	4
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	60	58	59
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	997	966	957
Calcium	ppm	ASTM D5185(m)	1070	1119	1076	1028
Phosphorus	ppm	ASTM D5185(m)	1150	1058	994	1039
Zinc	ppm	ASTM D5185(m)	1270	1222	1211	1180
Sulfur	ppm	ASTM D5185(m)	2060	2596	2377	2410
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.6	22.0	25.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.5	14.3	15.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 207 - Pickering SW**
Sample No. : GFL0102714 **Received** : 15 Jan 2024 **1034 TOY AVENUE, PICKERING YARD**
Lab Number : 02608697 **Diagnosed** : 15 Jan 2024 **PICKERING, ON**
Unique Number : 5709783 **Diagnostician** : Wes Davis **CA L1W 3P1**
Test Package : MOB 1

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.

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