



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
9947

Component
Front Diesel Engine

Fluid
PETRO CANADA DURON XL SYN BLEND 15W40 (43 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0099550	GFL0091563	GFL0077569
Sample Date		Client Info		09 Jan 2024	05 Oct 2023	24 Apr 2023
Machine Age	hrs	Client Info		23363	96991	22358
Oil Age	hrs	Client Info		548	0	311
Filter Age	hrs	Client Info		548	0	311
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)	>120	20	17	11
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	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	2	1	<1
Lead	ppm	ASTM D5185(m)	>40	11	21	1
Copper	ppm	ASTM D5185(m)	>330	14	8	<1
Tin	ppm	ASTM D5185(m)	>15	1	2	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

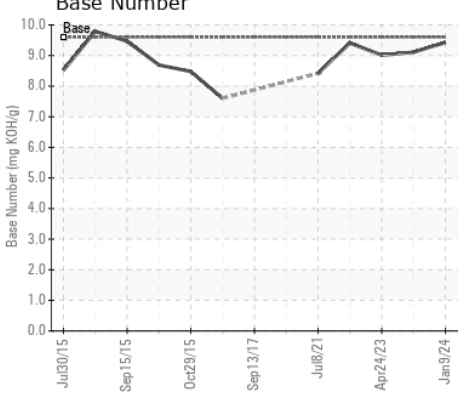
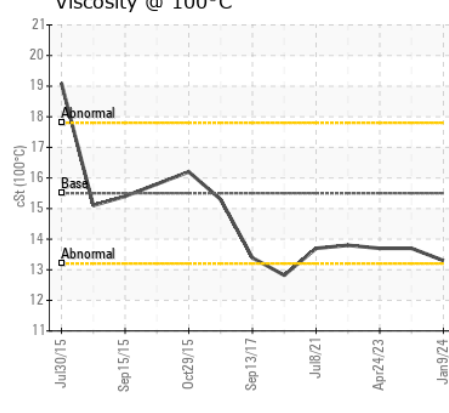
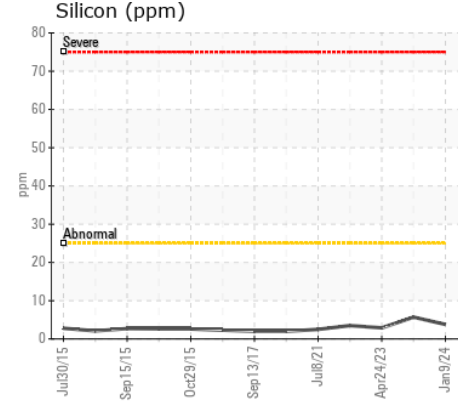
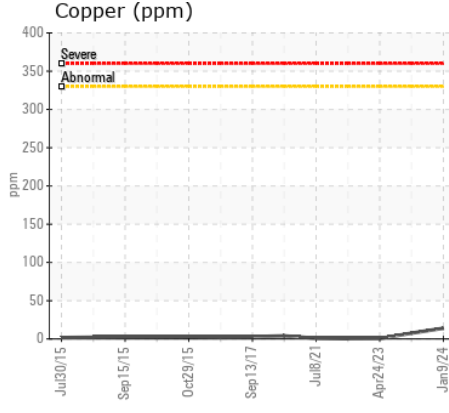
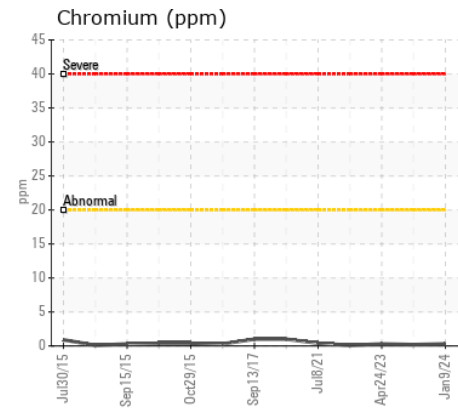
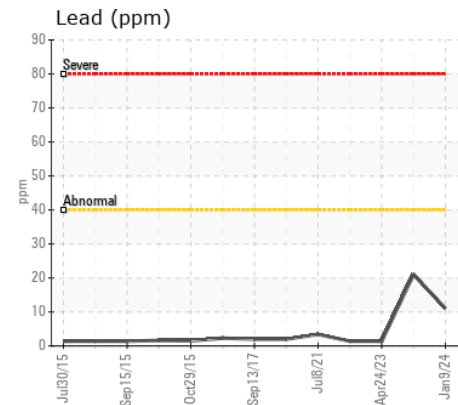
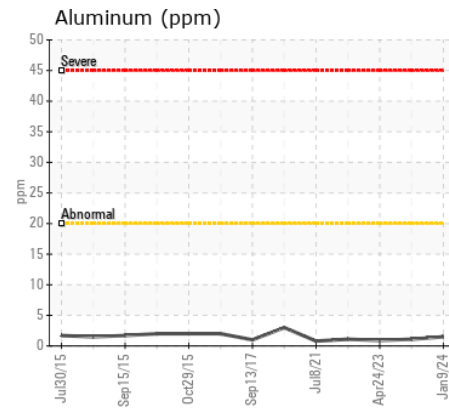
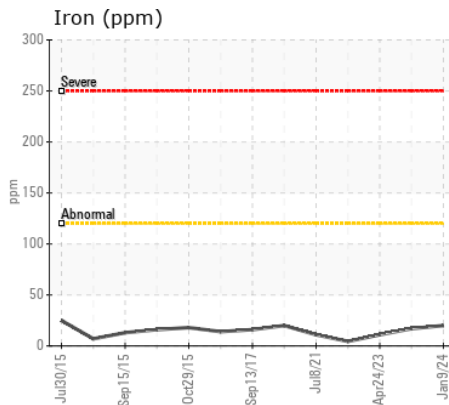
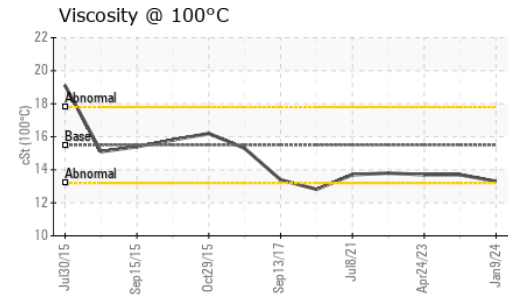
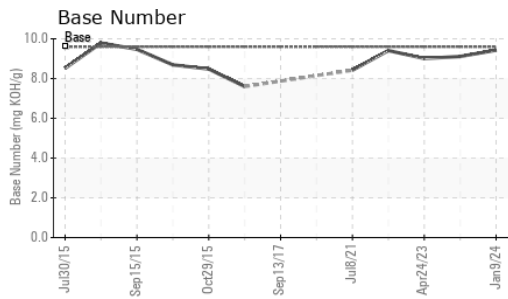
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	6	3
Potassium	ppm	ASTM D5185(m)	>20	0	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*	>4	1.7	1.5	1.1
Nitration	Abs/cm	ASTM D7624*	>20	7.6	6.5	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.8	21.2	20.1
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		2	12	1
Boron	ppm	ASTM D5185(m)	1	2	3	4
Barium	ppm	ASTM D5185(m)	1	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	54	56	55
Manganese	ppm	ASTM D5185(m)	1	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	873	888	892
Calcium	ppm	ASTM D5185(m)	1070	985	1021	1049
Phosphorus	ppm	ASTM D5185(m)	1150	940	948	1015
Zinc	ppm	ASTM D5185(m)	1270	1088	1118	1104
Sulfur	ppm	ASTM D5185(m)	2060	2491	2450	2494
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.7	14.3	14.0
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	9.43	9.11	9.01
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	13.3	13.7	13.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County
Sample No. : GFL0099550 **Received** : 16 Jan 2024
Lab Number : 02608850 **Diagnosed** : 16 Jan 2024
Unique Number : 5709936 **Diagnostician** : Wes Davis
Test Package : MOB 2

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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