



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
401022
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0117304	GFL0099607	GFL0091571
Sample Date		Client Info		16 Apr 2024	22 Jan 2024	17 Oct 2023
Machine Age	kms	Client Info		21330	736223	714260
Oil Age	kms	Client Info		1822	0	0
Filter Age	kms	Client Info		1822	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)	>100	27	40	22
Chromium	ppm	ASTM D5185(m)	>20	<1	2	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	4	8	3
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	3	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

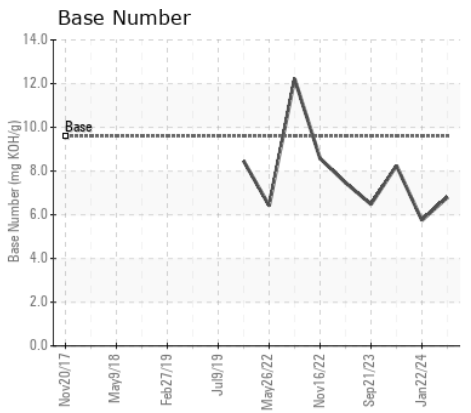
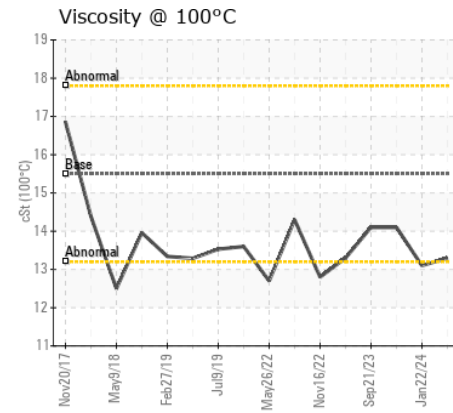
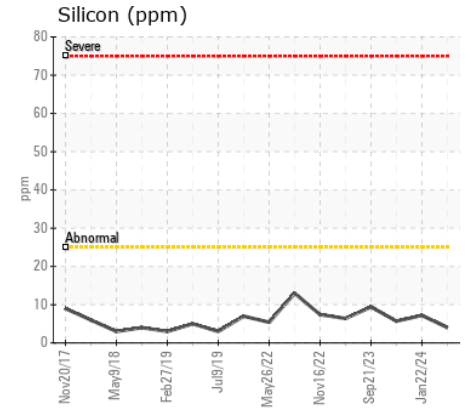
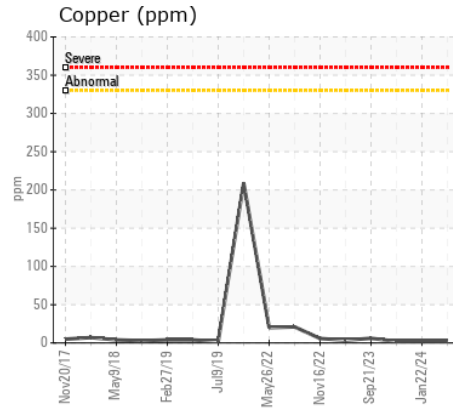
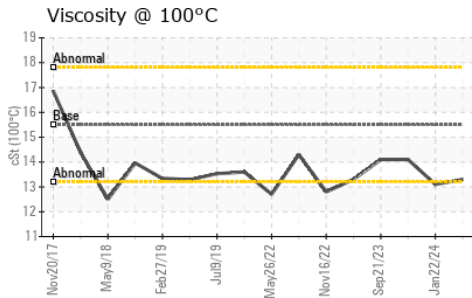
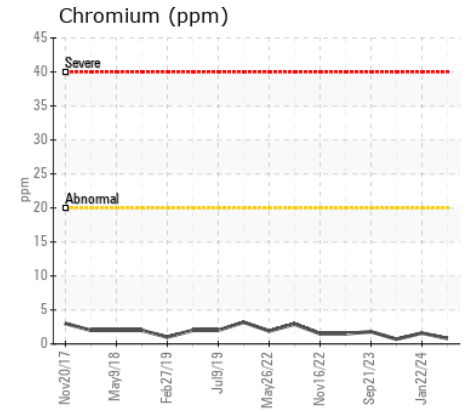
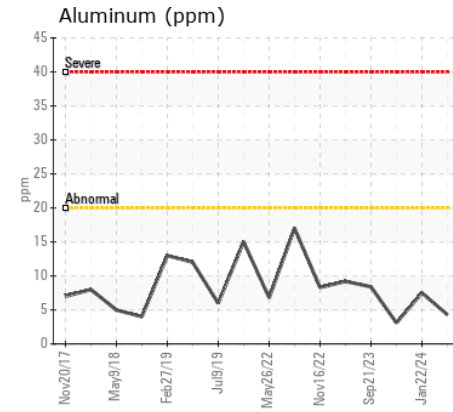
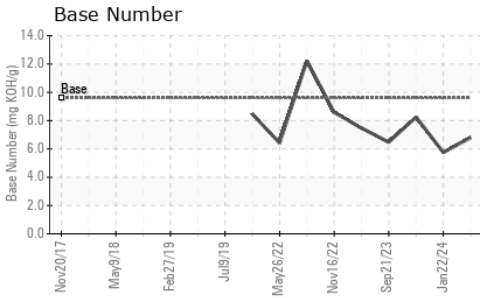
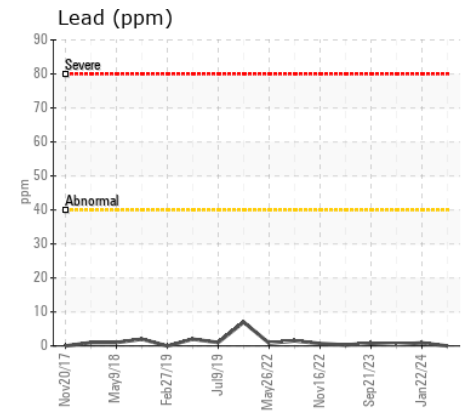
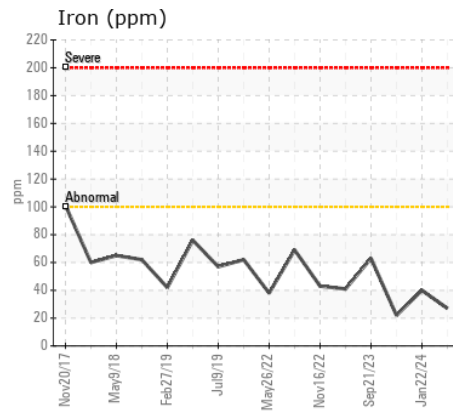
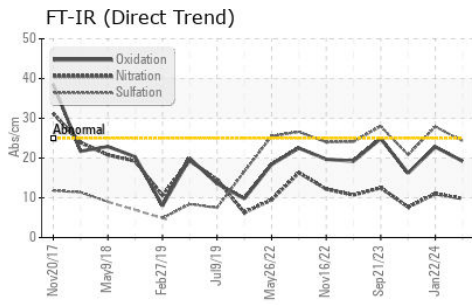
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	7	6
Potassium	ppm	ASTM D5185(m)	>20	<1	3	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	1.6	2.2	0.8
Nitration	Abs/cm	ASTM D7624*	>20	9.8	11.0	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.3	27.9	20.8
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)		17	29	24
Boron	ppm	ASTM D5185(m)	1	3	2	3
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	55	56	59
Manganese	ppm	ASTM D5185(m)	1	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	913	880	936
Calcium	ppm	ASTM D5185(m)	1070	1008	1048	1057
Phosphorus	ppm	ASTM D5185(m)	1150	871	906	975
Zinc	ppm	ASTM D5185(m)	1270	999	1053	1184
Sulfur	ppm	ASTM D5185(m)	2060	1893	2210	2435
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.2	22.8	16.2
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	6.80	5.75	8.25
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	13.3	13.1	14.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0117304
Lab Number : 02630890
Unique Number : 5772043
Test Package : MOB 2

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 Rocky View County, AB
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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.