



Machine Id
9951

Component
Diesel Engine

Fluid
PETRO CANADA DURON XL SYN BLEND 15W40 (37 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0099539	GFL0084298	GFL0077589
Sample Date		Client Info		26 Dec 2023	20 Jul 2023	03 Jul 2023
Machine Age	kms	Client Info		505000	489343	486366
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	3	4	21
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>5	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	1	4
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	3
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

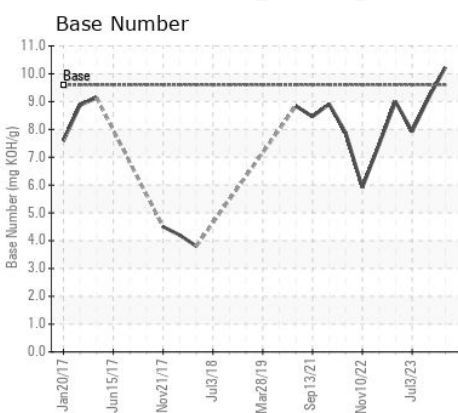
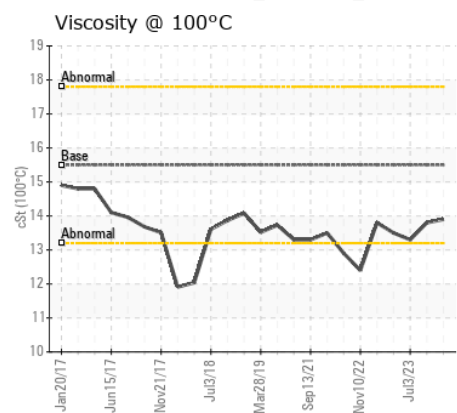
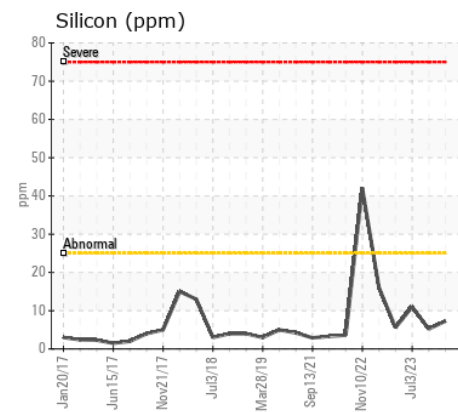
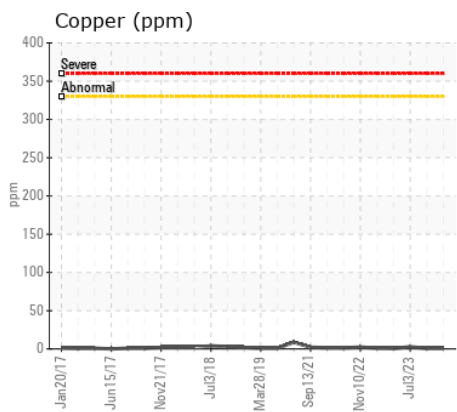
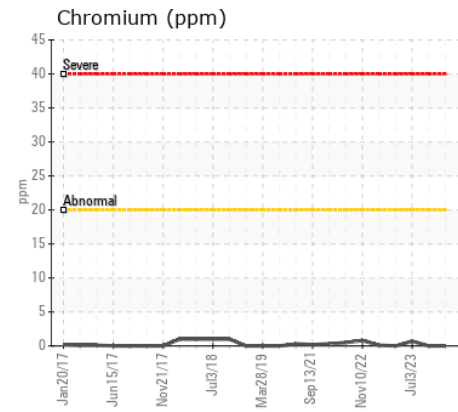
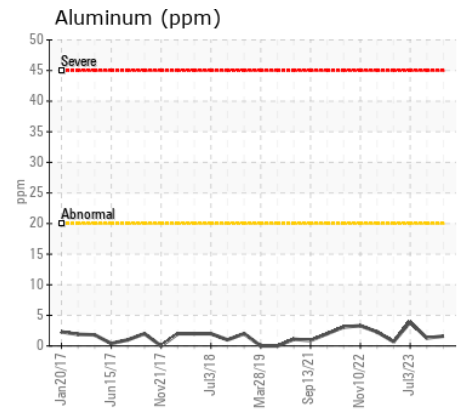
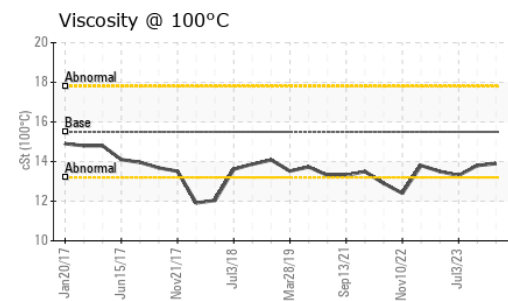
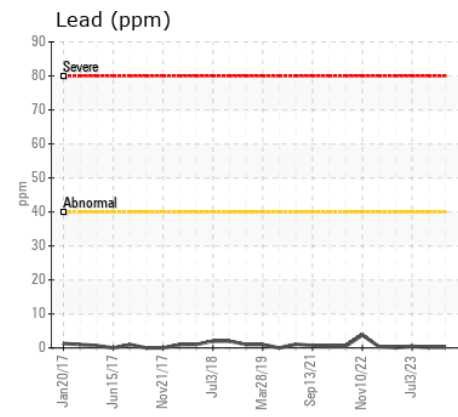
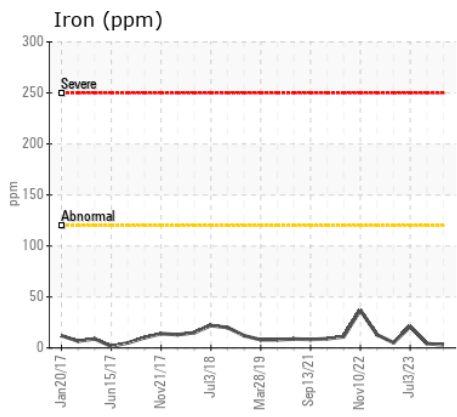
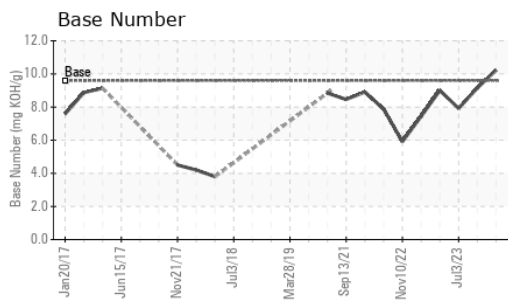
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	5	11
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*	>4	0	0.2	1.1
Nitration	Abs/cm	ASTM D7624*	>20	4.8	5.9	9.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1	19.4	21.4
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	3	6
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	55	56
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	908	928	909
Calcium	ppm	ASTM D5185(m)	1070	1026	990	1044
Phosphorus	ppm	ASTM D5185(m)	1150	970	1025	1024
Zinc	ppm	ASTM D5185(m)	1270	1137	1136	1146
Sulfur	ppm	ASTM D5185(m)	2060	2705	2547	2467
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.6	14.6	16.7
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	10.23	9.15	7.92
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	13.9	13.8	13.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County
Sample No. : GFL0099539 **Received** : 04 Jan 2024
Lab Number : 02606451 **Diagnosed** : 05 Jan 2024
Unique Number : 5707537 **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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