



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
801108
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		GFL0117292	GFL0091592	GFL0091653
Sample Date		Client Info		25 Apr 2024	19 Nov 2023	28 Sep 2023
Machine Age	hrs	Client Info		0	13685	1240
Oil Age	hrs	Client Info		603	419	0
Filter Age	hrs	Client Info		603	419	0
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)	>80	34	20	27
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>30	6	8	10
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>150	2	1	1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

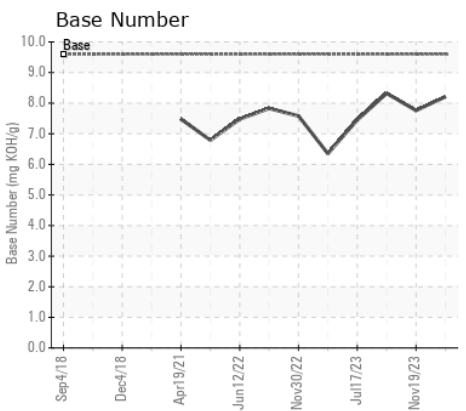
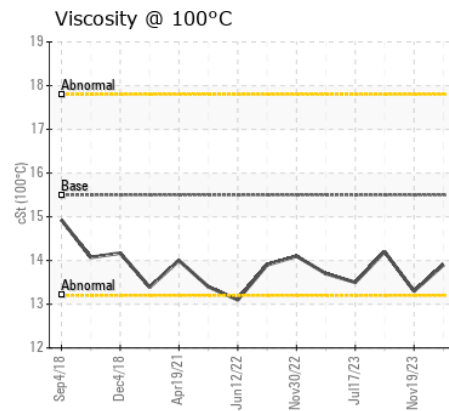
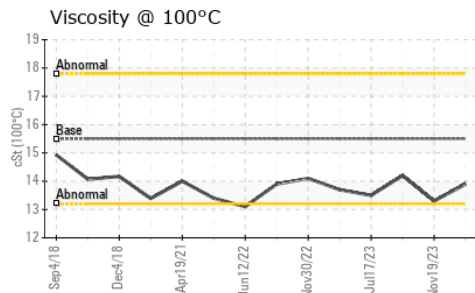
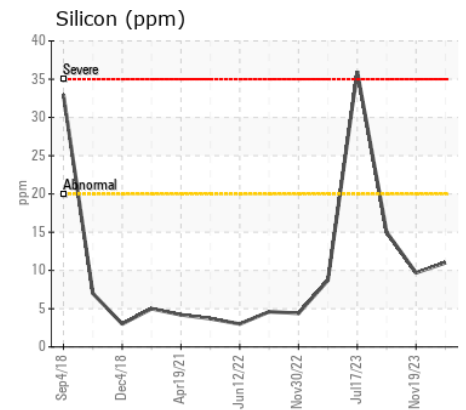
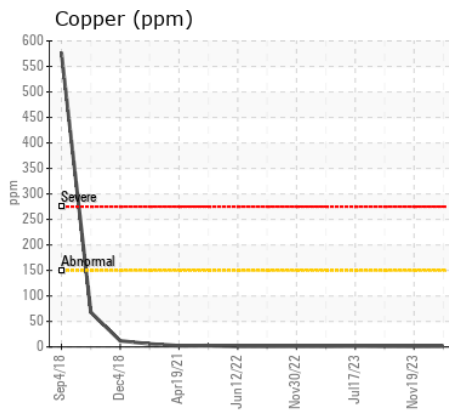
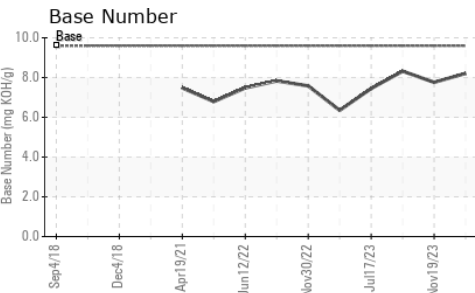
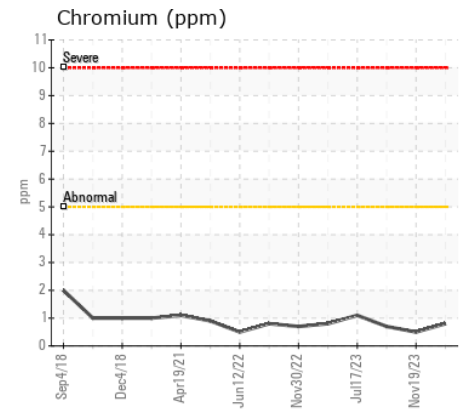
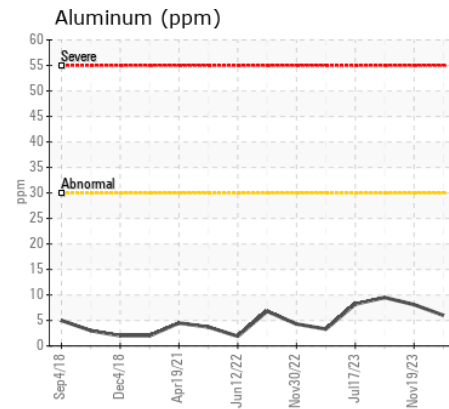
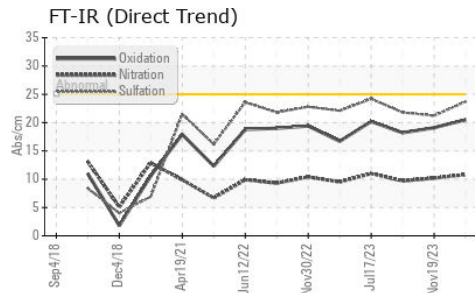
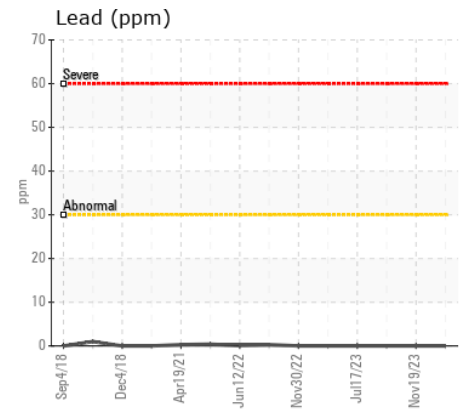
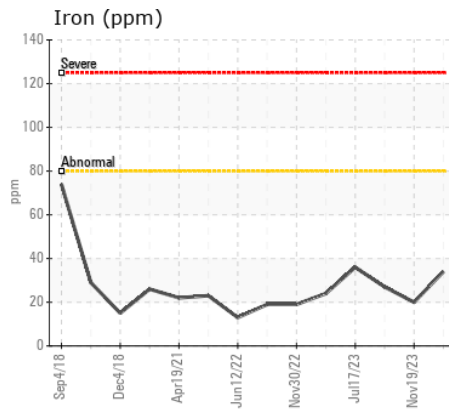
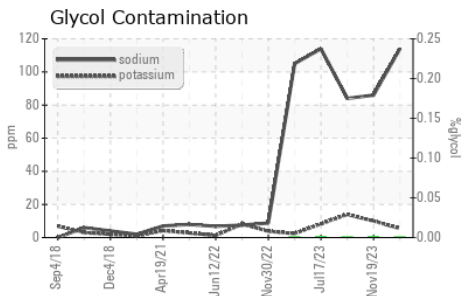
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	11	10	15
Potassium	ppm	ASTM D5185(m)	>20	6	10	14
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*	>3	1	0.6	0.9
Nitration	Abs/cm	ASTM D7624*	>20	10.8	10.2	9.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.7	21.2	21.8
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)		114	86	84
Boron	ppm	ASTM D5185(m)	1	2	2	2
Barium	ppm	ASTM D5185(m)	1	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	61	57	62
Manganese	ppm	ASTM D5185(m)	1	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	937	879	949
Calcium	ppm	ASTM D5185(m)	1070	1032	974	1064
Phosphorus	ppm	ASTM D5185(m)	1150	950	931	984
Zinc	ppm	ASTM D5185(m)	1270	1162	1125	1204
Sulfur	ppm	ASTM D5185(m)	2060	2238	2296	2446
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.5	19.1	18.2
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	8.21	7.76	8.32
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	13.9	13.3	14.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0117292
Lab Number : 02632476
Unique Number : 5773629
Test Package : MOB 2 (Additional Tests: Glycol)

GFL Environmental - 550 - Rocky View County
 220 Carmek Blvd
 Rocky View County, AB
 CA T1X 1X1
 Contact: GFL Calgary
 calgarymaintenance@gflenv.com

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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