

Machine Id
4487
Component
Front 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		GFL0117275	GFL0099620	GFL0084272
Sample Date		Client Info		23 Apr 2024	29 Jan 2024	10 Jul 2023
Machine Age	kms	Client Info		11391164	1134500	29591
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	3	6	8
Chromium	ppm	ASTM D5185(m)	>6	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	1	1
Lead	ppm	ASTM D5185(m)	>95	0	1	<1
Copper	ppm	ASTM D5185(m)	>85	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>9	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

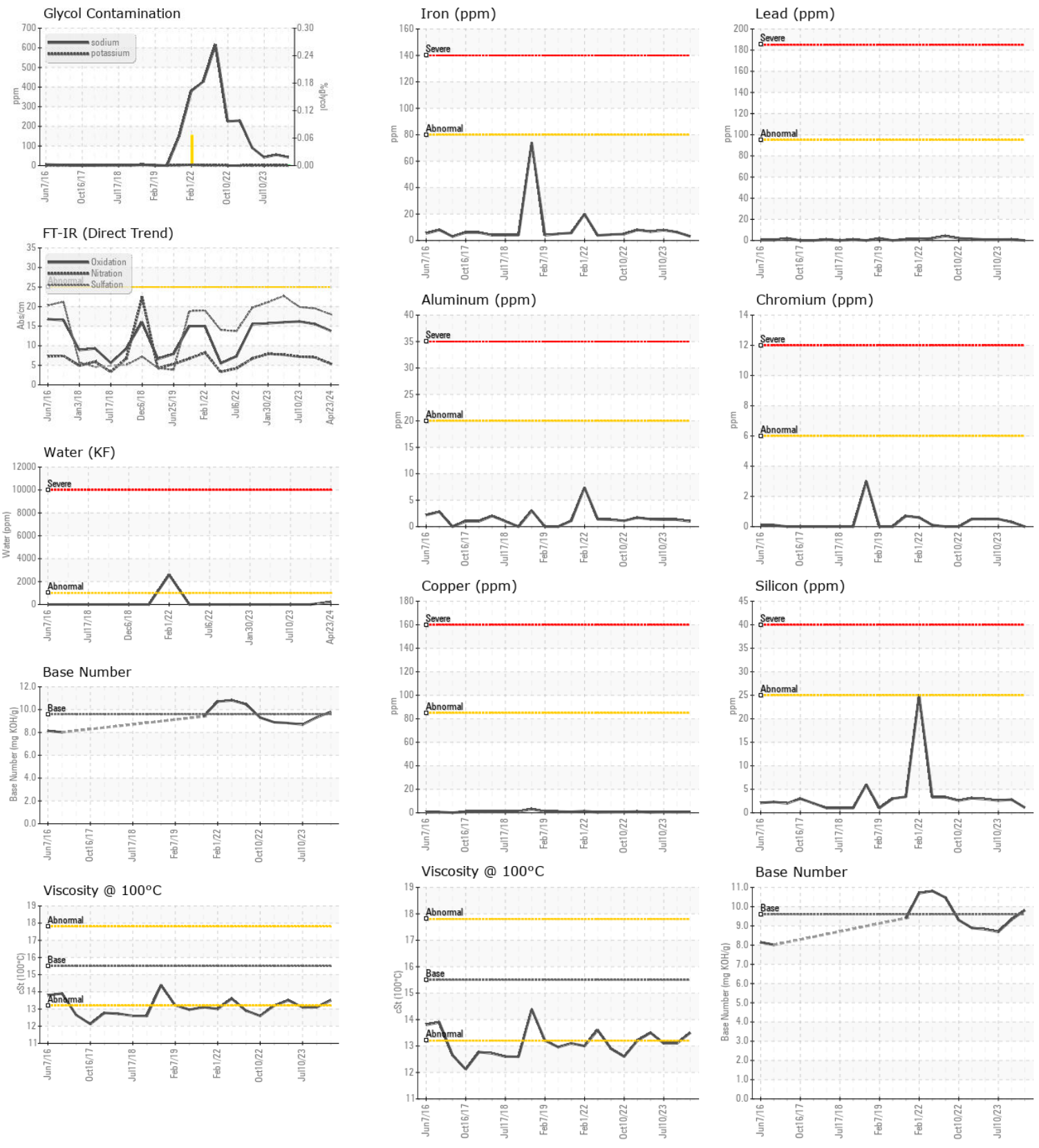
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	3	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>4.0	<1.0	<1.0	1.9
Water	%	ASTM D6304*	>0.1	0.021	---	---
ppm Water	ppm	ASTM D6304*	>1000	217	---	---
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*		0	0.1	0.2
Nitration	Abs/cm	ASTM D7624*	>20	5.4	7.0	7.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	19.5	19.9
Emulsified Water	scalar	Visual*	>0.1	.2%	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)		42	55	42
Boron	ppm	ASTM D5185(m)	1	3	3	2
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	57	57	57
Manganese	ppm	ASTM D5185(m)	1	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	914	913	944
Calcium	ppm	ASTM D5185(m)	1070	1001	1047	1031
Phosphorus	ppm	ASTM D5185(m)	1150	975	967	1013
Zinc	ppm	ASTM D5185(m)	1270	1115	1112	1121
Sulfur	ppm	ASTM D5185(m)	2060	2474	2665	2476
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.8	15.5	16.2
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	9.81	9.32	8.69
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	13.5	13.1	13.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0117275
Lab Number : 02632516
Unique Number : 5773669
Test Package : MOB 2 (Additional Tests: Glycol, KF)

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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.