



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
10442 AUTOCAR ACX

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (48 GAL)

RECOMMENDATION

We advise that you check the fuel injection system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0103194	GFL0094646	GFL0094758
Sample Date		Client Info		29 Feb 2024	05 Dec 2023	25 Nov 2023
Machine Age	hrs	Client Info		6757	6176	6089
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Changed
Filter Changed		Client Info		Not Chngd	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	41	11	42
Chromium	ppm	ASTM D5185m	>5	2	<1	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	8	5	6
Lead	ppm	ASTM D5185m	>25	<1	0	1
Copper	ppm	ASTM D5185m	>100	12	10	▲ 78
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

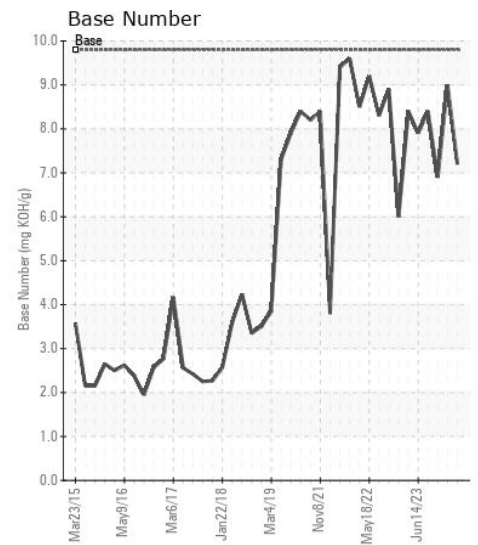
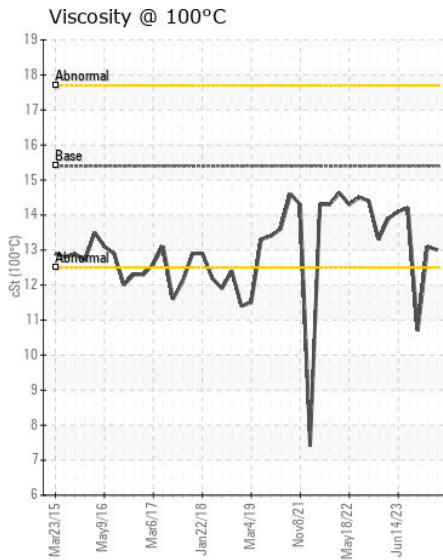
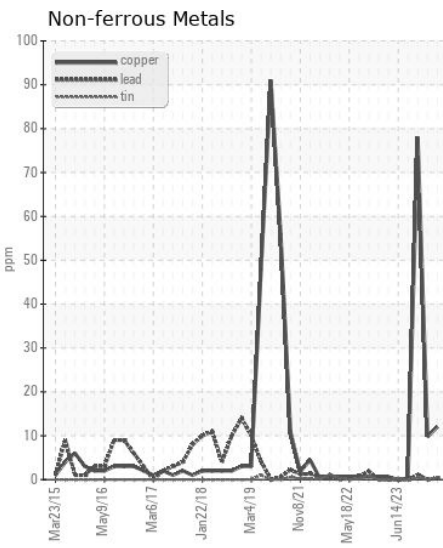
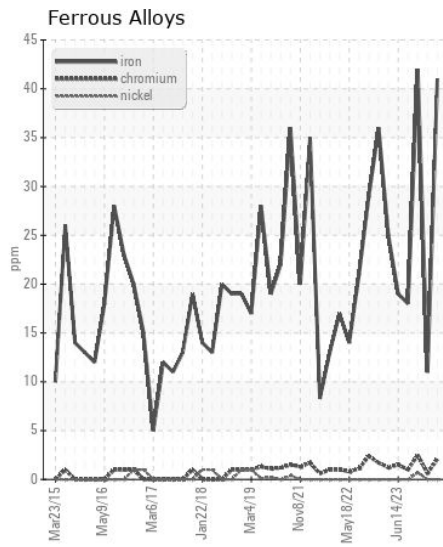
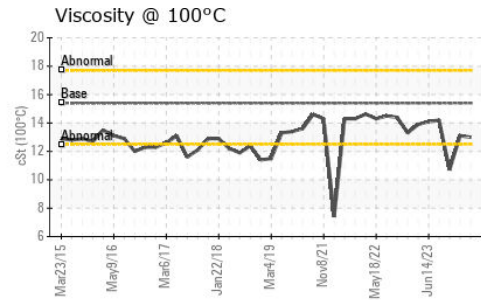
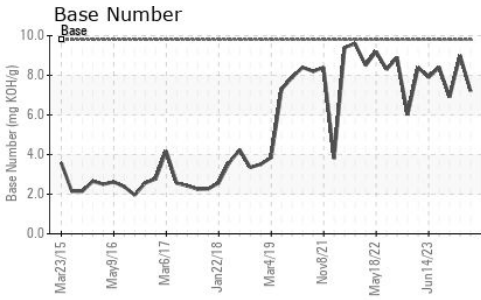
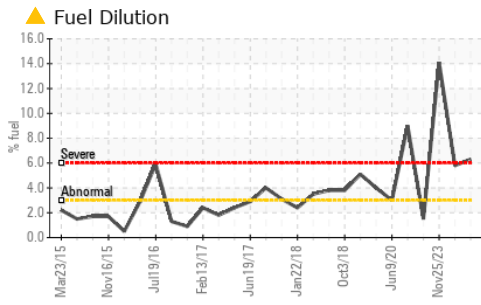
There is a moderate amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>25	5	8	8
Potassium	ppm	ASTM D5185m	>20	15	1	23
Fuel	%	ASTM D3524	>3.0	▲ 6.3	▲ 5.8	▲ 14.1
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	1.9	0.6	1.5
Nitration	Abs/cm	*ASTM D7624	>20	13.2	6.8	12.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.2	19.2	24.2
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		9	4	17
Boron	ppm	ASTM D5185m	0	3	4	2
Barium	ppm	ASTM D5185m	0	0	0	1
Molybdenum	ppm	ASTM D5185m	60	55	54	58
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	861	917	863
Calcium	ppm	ASTM D5185m	1070	948	995	1025
Phosphorus	ppm	ASTM D5185m	1150	880	1016	850
Zinc	ppm	ASTM D5185m	1270	1163	1215	1094
Sulfur	ppm	ASTM D5185m	2060	2464	2885	2603
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.4	14.5	22.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.2	9.0	6.9
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	13.1	▲ 10.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0103194 **Received** : 01 Mar 2024
Lab Number : 06105848 **Tested** : 05 Mar 2024
Unique Number : 10909345 **Diagnosed** : 05 Mar 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: PercentFuel)

GFL Environmental - 001 - Raleigh(CNG)
 3741 Conquest Drive
 Garner, NC
 US 27529
 Contact: Ronald Gregory
 rgregory@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: (919)662-1730