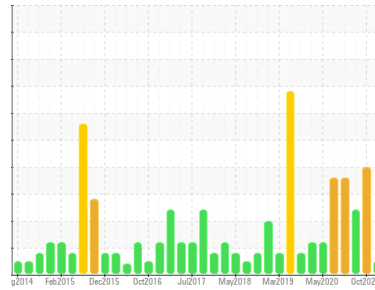




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
10444 AUTOCAR ACX

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (48 QTS)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			GFL0117497	GFL0052308	PCA0032072
Sample Date	Client Info			10 May 2024	10 Oct 2022	04 Mar 2021
Machine Age	hrs	Client Info		3500	866	169849
Oil Age	hrs	Client Info		0	843	520
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	NEG	NEG	NEG
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	72	▲ 114	51
Chromium	ppm	ASTM D5185m	>5	2	3	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>15	10	10	6
Lead	ppm	ASTM D5185m	>25	3	4	1
Copper	ppm	ASTM D5185m	>100	93	4	3
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Antimony	ppm	ASTM D5185m		---	---	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	15	16
Barium	ppm	ASTM D5185m	0	4	2	0
Molybdenum	ppm	ASTM D5185m	60	60	70	60
Manganese	ppm	ASTM D5185m	0	4	1	<1
Magnesium	ppm	ASTM D5185m	1010	929	771	824
Calcium	ppm	ASTM D5185m	1070	1164	1208	1068
Phosphorus	ppm	ASTM D5185m	1150	1014	870	959
Zinc	ppm	ASTM D5185m	1270	1267	1130	1091
Sulfur	ppm	ASTM D5185m	2060	3312	3276	2402

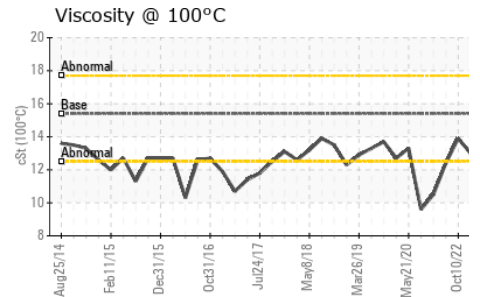
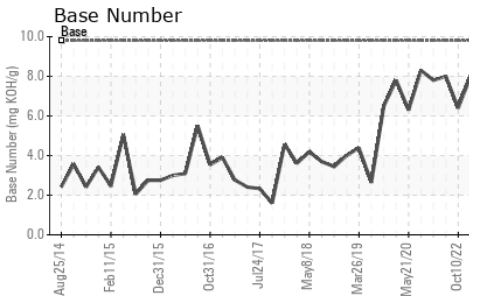
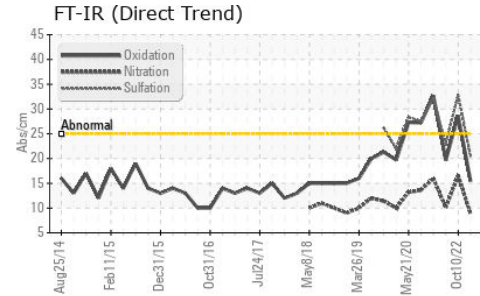
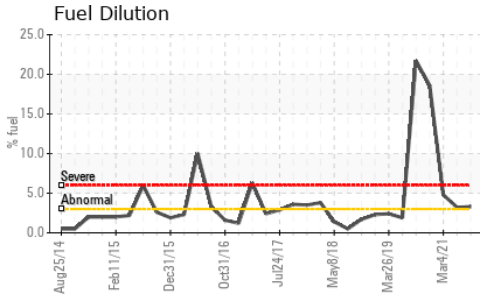
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	10	7
Sodium	ppm	ASTM D5185m		7	▲ 98	● 140
Potassium	ppm	ASTM D5185m	>20	27	▲ 41	4
Fuel	%	ASTM D3524	>3.0	3.3	▲ 3.2	▲ 4.8

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.9	2.5	1
Nitration	Abs/cm	*ASTM D7624	>20	8.8	16.6	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	32.9	23

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	28.6	19.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	6.4	8



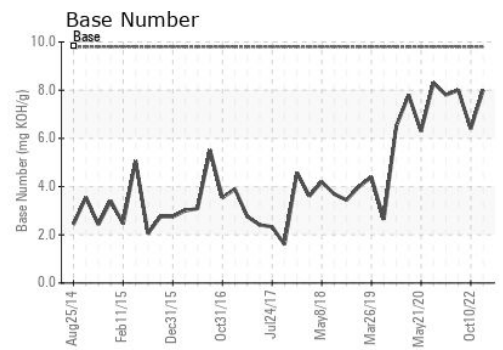
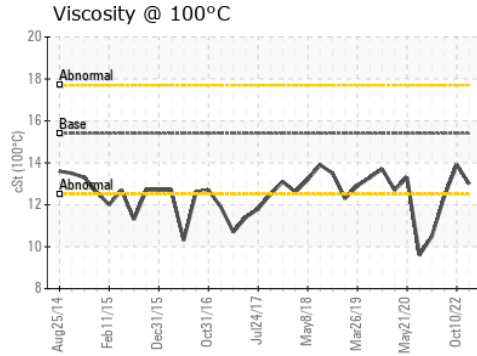
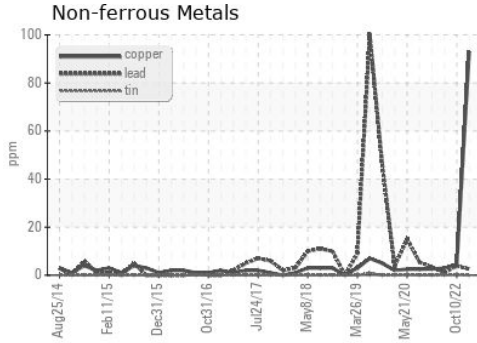
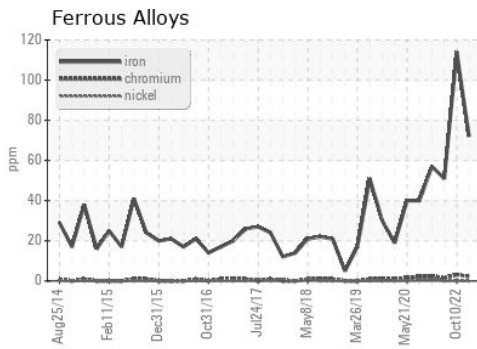
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	13.9 ▲ 12.4

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0117497 **Received** : 13 May 2024
Lab Number : 06176922 **Tested** : 15 May 2024
Unique Number : 11022975 **Diagnosed** : 15 May 2024 - Wes Davis
Test Package : FLEET (Additional Tests: PercentFuel)

GFL Environmental - 001 - Raleigh(CNG)
 3741 Conquest Drive
 Garner, NC
 US 27529
 Contact: Craig Johnson
 craig.johnson@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)

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