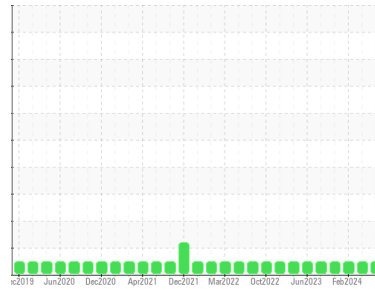




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
3870 AUTOCAR ACX64

Component
Natural Gas Engine

Fluid
PETRO CANADA DURON GEO LD 15W40 (48 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	GFL0117416	GFL0117440	GFL0103204	
Sample Date	Client Info	05 Jul 2024	26 Apr 2024	12 Feb 2024	
Machine Age	hrs	Client Info	14289	13762	13136
Oil Age	hrs	Client Info	527	626	641
Oil Changed	Client Info	Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	

CONTAMINATION

method	limit/base	current	history1	history2	
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>50	7	10	16
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	2	1
Lead	ppm	ASTM D5185m	>30	3	2	2
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	50	6	4	4
Barium	ppm	ASTM D5185m	5	0	0	8
Molybdenum	ppm	ASTM D5185m	50	59	60	60
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	560	918	931	881
Calcium	ppm	ASTM D5185m	1510	1156	1051	1020
Phosphorus	ppm	ASTM D5185m	780	1092	1030	889
Zinc	ppm	ASTM D5185m	870	1287	1248	1142
Sulfur	ppm	ASTM D5185m	2040	3534	3066	2812

CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>+100	5	7	3
Sodium	ppm	ASTM D5185m		5	3	0
Potassium	ppm	ASTM D5185m	>20	3	2	1

INFRA-RED

method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844		0.3	0.3	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.3	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.1	20.2

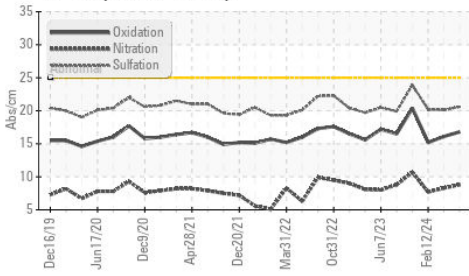
FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	16.1	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.4	7.7	8.0

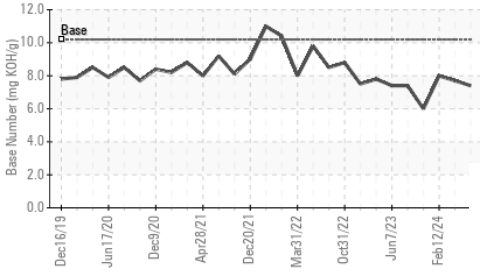


OIL ANALYSIS REPORT

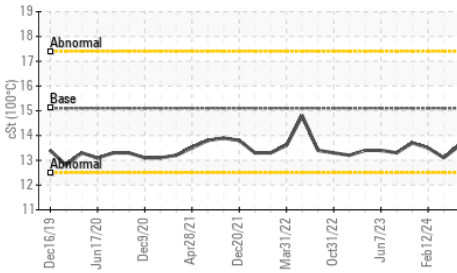
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

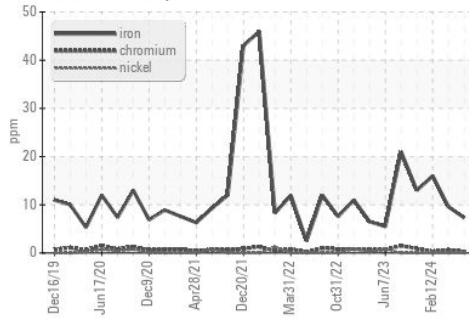


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

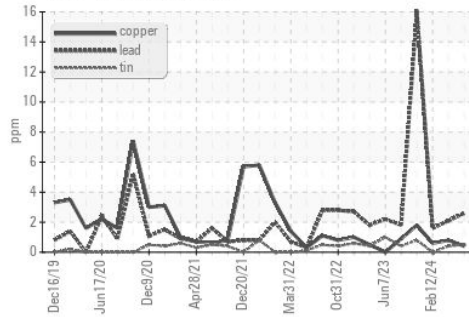
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	13.6	13.1

GRAPHS

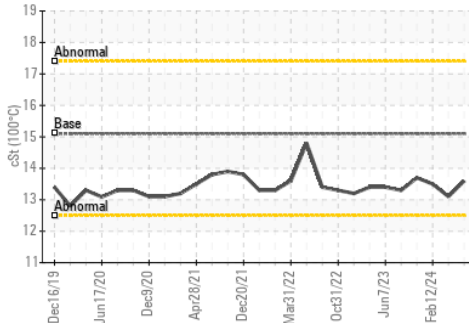
Ferrous Alloys



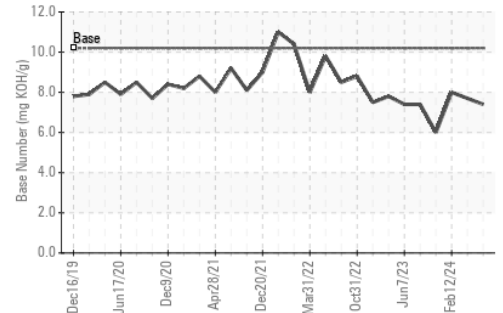
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : GFL0117416
 Lab Number : 06231925
 Unique Number : 11115418
 Test Package : FLEET

Received : 10 Jul 2024
 Tested : 10 Jul 2024
 Diagnosed : 11 Jul 2024 - Don Baldrige

GFL Environmental - 001 - Raleigh(CNG)
 3741 Conquest Drive
 Garner, NC
 US 27529

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)

Contact: Craig Johnson
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