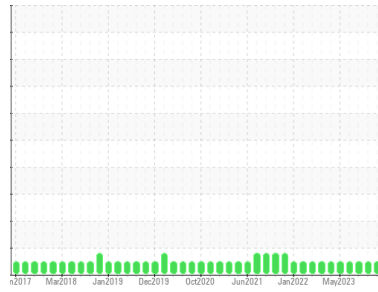




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
3627C AUTOCAR ACX

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 suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0103185	GFL0094661	GFL0094705
Sample Date	Client Info	17 May 2024	06 Nov 2023	19 Oct 2023
Machine Age	hrs	2919	2119	23765
Oil Age	hrs	0	0	0
Oil Changed	Client Info	Not Chngd	Not Chngd	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	24	19	19
Chromium	ppm	ASTM D5185m >4	3	2	2
Nickel	ppm	ASTM D5185m >2	0	<1	<1
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >9	5	3	4
Lead	ppm	ASTM D5185m >30	4	3	3
Copper	ppm	ASTM D5185m >35	2	5	4
Tin	ppm	ASTM D5185m >4	2	<1	1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	<1	<1

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 50	39	8	13
Barium	ppm	ASTM D5185m 5	0	5	0
Molybdenum	ppm	ASTM D5185m 50	91	53	52
Manganese	ppm	ASTM D5185m 0	3	<1	1
Magnesium	ppm	ASTM D5185m 560	685	519	539
Calcium	ppm	ASTM D5185m 1510	1374	1540	1546
Phosphorus	ppm	ASTM D5185m 780	774	721	684
Zinc	ppm	ASTM D5185m 870	918	921	947
Sulfur	ppm	ASTM D5185m 2040	2866	2531	2312

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >+100	15	12	14
Sodium	ppm	ASTM D5185m	3	16	19
Potassium	ppm	ASTM D5185m >20	<1	7	7

INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	0	0	0
Nitration	Abs/cm	*ASTM D7624 >20	8.1	11.0	9.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.8	22.8	21.5

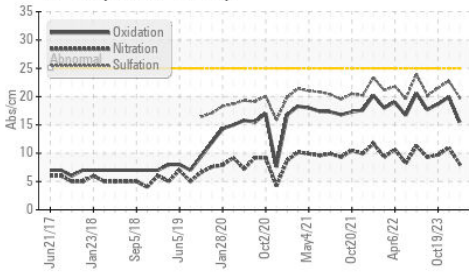
FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.5	19.9	18.7
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	5.8	4.4	4.9

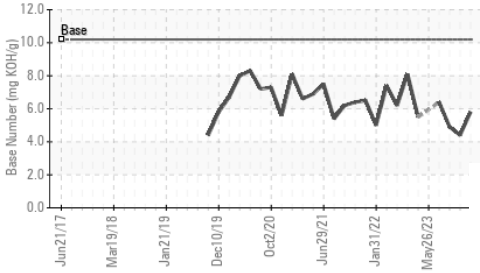


OIL ANALYSIS REPORT

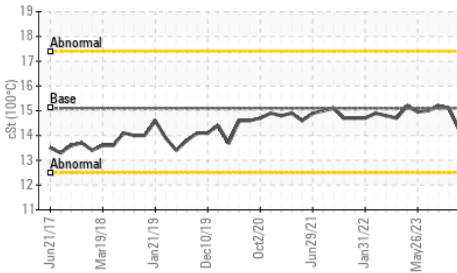
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

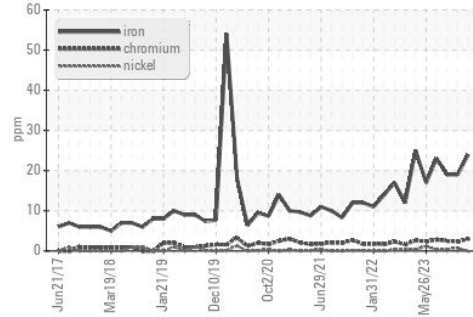


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

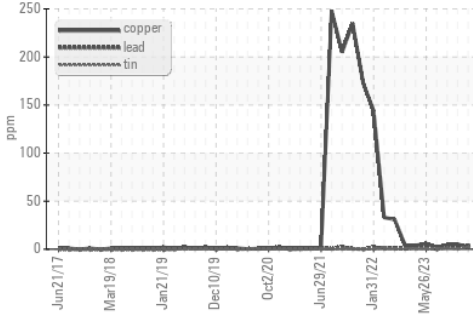
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.2	15.1

GRAPHS

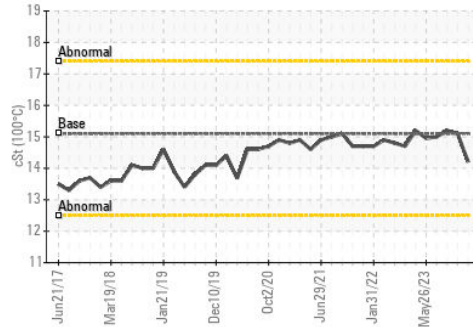
Ferrous Alloys



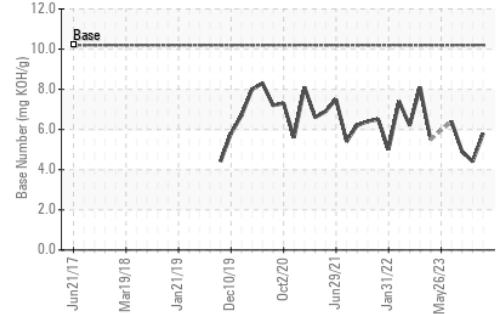
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : GFL0103185
 Lab Number : 06187031
 Unique Number : 11043783
 Test Package : FLEET

Received : 21 May 2024
 Tested : 23 May 2024
 Diagnosed : 23 May 2024 - Wes Davis

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

Contact: Craig Johnson
 craig.johnson@gflenv.com

T: (919)662-7100
 F: (919)662-7130

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)