WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



Machine Id
731027
Component
Natural Gas Engine
Fluid
CASTROL 15W40 (--- GAL)

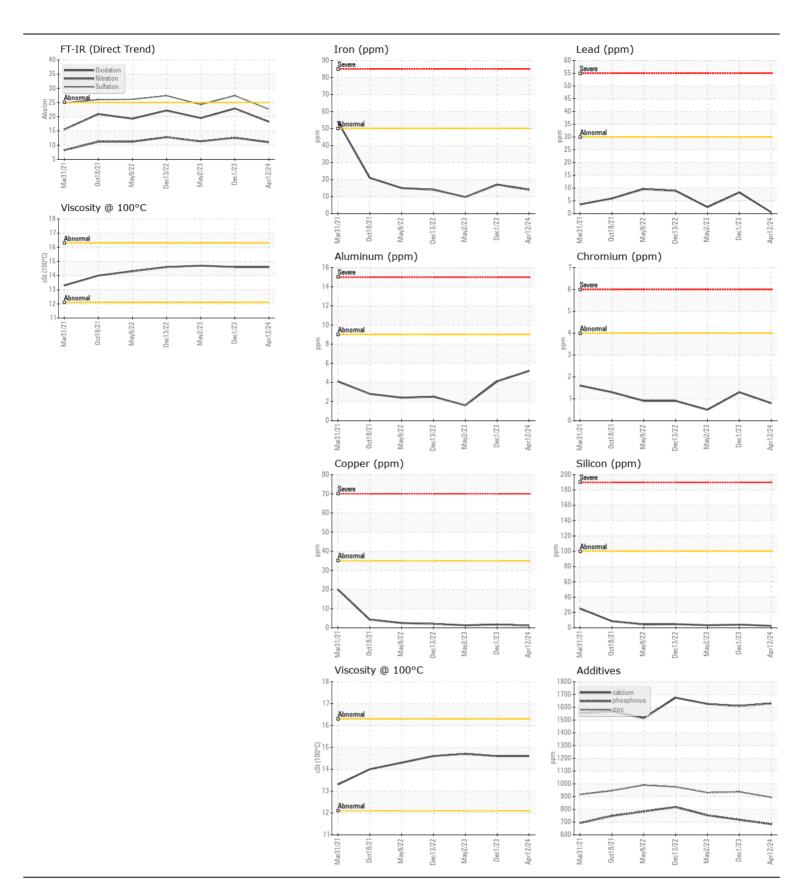
Natural Gas Engine CASTROL 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0100752	GFL0100759	GFL0041636
	Sample Date		Client Info		12 Apr 2024	01 Dec 2023	02 May 2023
	Machine Age	kms	Client Info		85120	85120	70772
	Oil Age	kms	Client Info		0	0	0
	Filter Age	kms	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>50	14	17	10
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)	>4	<1	1	<1
	Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
	Titanium	ppm	ASTM D5185(m)		0	0	<1
	Silver	ppm	ASTM D5185(m)	>3	0	<1	0
	Aluminum	ppm	ASTM D5185(m)	>9	5	4	2
	Lead	ppm	ASTM D5185(m)	>30	<1	8	2
	Copper	ppm	ASTM D5185(m)	>35	1	2	1
	Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185(m)	>+100	2	4	3
	Potassium	ppm	ASTM D5185(m)	>20	17	8	0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Soot %	%	ASTM D7844*		0	0	0
	Nitration	Abs/cm	ASTM D7624*	>20	11.0	12.6	11.3
	Sulfation	Abs/.1mm	ASTM D7415*	>30	22.6	27.4	24.3
	Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>406	2	3	2
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		9	6	8
	Barium	ppm	ASTM D5185(m)		0	<1	0
	Molybdenum	ppm	ASTM D5185(m)		50	54	53
	Manganese	ppm	ASTM D5185(m)		<1	<1	<1
	Magnesium	ppm	ASTM D5185(m)		505	553	567
	Calcium	ppm	ASTM D5185(m)		1629	1610	1626
	Phosphorus	ppm	ASTM D5185(m)		684	718	753
	Zinc	ppm	ASTM D5185(m)		894	937	931
	Sulfur	ppm	ASTM D5185(m)		1950	1954	2074
	Oxidation		ASTM D7414*	>25	18.2	22.9	19.5
	\" O 10000	- 01	A OTA A D7070()		440	440	4 4 7

Visc @ 100°C cSt

ASTM D7279(m)

14.6

14.6





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0100752

Lab Number : 02629116 Unique Number : 5762248 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 16 Apr 2024 **Tested**

: 16 Apr 2024 Diagnosed

: 17 Apr 2024 - Kevin Marson

C/O Metro Truck Niagara Inc., 411 Glendale Avenue St. Catharines, ON CA L2P 3Y1 Contact: Kelly Bremner kbremner@gflenv.com T: (437)235-6849

GFL Environmental - 277 - Niagara Regional

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.

Report Id: GFL277 [WCAMIS] 02629116 (Generated: 04/17/2024 13:43:28) Rev: 1