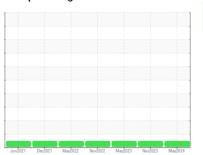


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
731018
Component
Natural Gas Engine
Fluid
CASTROL 15W40 (--- GAL)

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

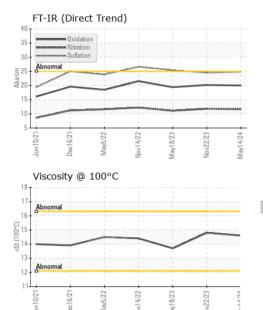
Fluid Condition

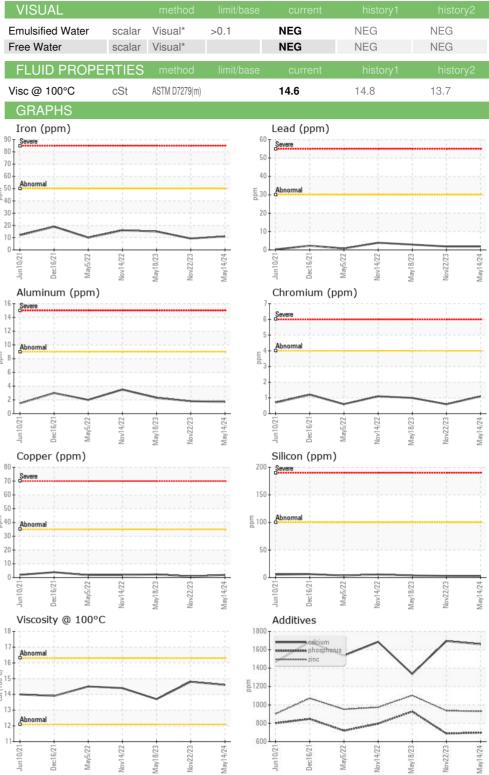
The condition of the oil is acceptable for the time in service.

GAL)		Jun2021	Dec2021 May2022	Nov2022 May2023 Nov2023	May2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100745	GFL0100762	GFL0079562
Sample Date		Client Info		14 May 2024	22 Nov 2023	18 May 2023
Machine Age	kms	Client Info		149277	109113	91886
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAI	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	11	9	15
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	2	2	2
Lead	ppm	ASTM D5185(m)	>30	2	2	3
Copper	ppm	ASTM D5185(m)	>35	2	<1	2
Tin	ppm	ASTM D5185(m)	>4	<1	<1	1
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		6	7	8
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		53	53	61
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)		537	541	873
Calcium	ppm	ASTM D5185(m)		1661	1694	1337
Phosphorus	ppm	ASTM D5185(m)		698	688	928
Zinc	ppm	ASTM D5185(m)		930	937	1103
Sulfur	ppm	ASTM D5185(m)		1987	2028	2415
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	3	3	4
Sodium	ppm	ASTM D5185(m)	>406	2	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.6	11.8	11.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.8	24.5	25.4
FLUID DEGRA	AOITAD.	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.0	20.2	19.4



OIL ANALYSIS REPORT







CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

Lab Number : 02636860 Unique Number : 5786022

: GFL0100745

Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 22 May 2024

Tested : 22 May 2024 Diagnosed

: 22 May 2024 - Kevin Marson

GFL Environmental - 277 - Niagara Regional 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

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.

Submitted By: Jordan Still