

OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
731025
Component
Natural Gas E

Natural Gas Engine

CASTROL 15W40 (--- GAL

DIAGNOSIS

Recommendation

Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative.

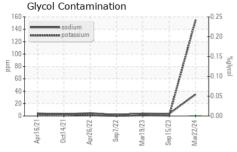
Fluid Condition

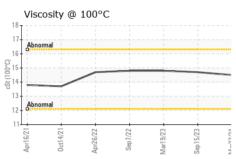
The condition of the oil is acceptable for the time in service (see recommendation).

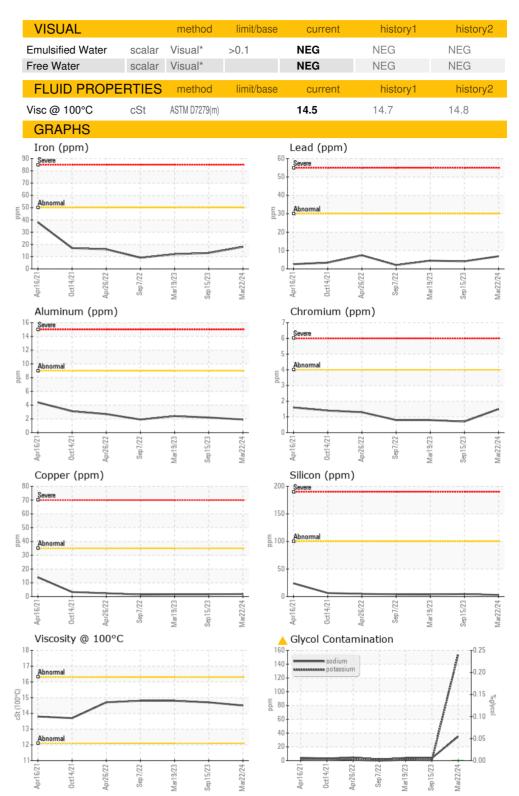
GAL)		Apr2021	Oct2021 Apr2022	Sep2022 Mar2023 Sep2023	Mar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100731	GFL0079584	GFL0041649
Sample Date		Client Info		22 Mar 2024	15 Sep 2023	19 Mar 2023
Machine Age	kms	Client Info		205754	174188	5492
Oil Age	kms	Client Info		0	0	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	18	13	12
Chromium	ppm	ASTM D5185(m)	>4	2	<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	0	0
Aluminum	ppm	ASTM D5185(m)	>9	2	2	2
Lead	ppm	ASTM D5185(m)	>30	7	4	4
Copper	ppm	ASTM D5185(m)	>35	2	2	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)		5	4	4
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		61	55	54
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		560	591	573
Calcium	ppm	ASTM D5185(m)		1749	1609	1726
Phosphorus	ppm	ASTM D5185(m)		741	792	777
Zinc	ppm	ASTM D5185(m)		962	944	974
Sulfur	ppm	ASTM D5185(m)		2004	1990	2091
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	3	4	4
Sodium	ppm	ASTM D5185(m)	>406	35	4	4
Potassium	ppm	ASTM D5185(m)	>20	154	<1	1
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.8	11.4	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.3	25.1	23.3
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.9	20.5	14.5



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CALA ISO 17025:2017 Accredited

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

: GFL0100731

Lab Number : 02624835 Unique Number : 5749954

Received **Tested**

: 27 Mar 2024 : 27 Mar 2024 Diagnosed

: 27 Mar 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 Package : MOB 1 (Additional Tests: Glycol)

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.