

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 414022 . ٢

Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (36 LTR)

DIAGNOSIS	SAMPLE INFORMA	TION	method	limit/base	current	history1	history2
Recommendation	Sample Number	(Client Info		GFL0118954	GFL0086779	GFL0086778
o corrective action is recommended at this time.	Sample Date	(Client Info		05 Jun 2024	21 Feb 2024	22 Dec 2023
esample at the next service interval to monitor.	Machine Age hr	rs (Client Info		1592	792	622
ear	Oil Age hr	rs (Client Info		1592	792	600
component wear rates are normal.	Oil Changed	C	Client Info		Changed	Changed	Changed
ontamination	Sample Status				ABNORMAL	NORMAL	ABNORMAL
el content negligible. There is no indication of v contamination in the oil.	CONTAMINATIO	N	method	limit/base	current	history1	history2
	Water	V	VC Method	>0.2	NEG	NEG	NEG
cosity of sample indicates oil is within SAE 30	Glycol	V	VC Method		NEG	NEG	NEG
range, advise investigate. The condition of the oil is acceptable for the time in service.	WEAR METALS		method	limit/base	current	history1	history2
	lron pr	pm A	STM D5185(m)	>120	13	10	29
	Chromium pr	pm A	STM D5185(m)	>20	0	0	<1
	Nickel pr	pm A	STM D5185(m)	>5	<1	1	2
	Titanium	pm A	STM D5185(m)	>2	<1	<1	0
	Silver pr	A ma	STM D5185(m)	>2	<1	1	<1
	Aluminum	A ma	STM D5185(m)	>20	3	4	6
	Lead pr	om A	STM D5185(m)	>40	7	11	13
	Copper pr	om A	STM D5185(m)	>330	273	455	415
	Tin pr	nm A	STM D5185(m)	>15	 _1	<1	3
	Antimony pr		STM D5185(m)	210	0	0	0
	Vanadium	pm A	STM D5185(m)		0	0	0
	Pandlium pr				0	0	0
	Codmium	n A			0	0	0
		рп и			U	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron pr	pm A	STM D5185(m)	250	34	84	258
	Barium pr	pm A	STM D5185(m)	10	0	0	<1
	Molybdenum pr	pm A	STM D5185(m)	100	92	90	117
	Manganese pp	pm A	STM D5185(m)		<1	<1	4
	Magnesium pp	pm A	STM D5185(m)	450	41	153	687
	Calcium pr	pm A	STM D5185(m)	3000	2208	2039	1421
	Phosphorus pr	pm A	STM D5185(m)	1150	999	974	661
	Zinc pr	pm A	STM D5185(m)	1350	1167	1081	767
	Sulfur pr	pm A	STM D5185(m)	4250	2967	3129	2014
	Lithium pr	pm A	STM D5185(m)		<1	<1	<1
	CONTAMINANTS	S	method	limit/base	current	history1	history2
	Silicon pr	pm A	STM D5185(m)	>25	6	16	55
	Sodium pr	pm A	STM D5185(m)	>158	2	2	3
	Potassium pp	pm A	STM D5185(m)	>20	4	7	10
	Fuel %	6 A	STM D7593*	>3.0	0.1	<1.0	1
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	% A	STM D7844*	>4	0.1	0	0.1
	Nitration At	bs/cm A	STM D7624*	>20	10.4	9.9	10.2
	Sulfation Ab	bs/.1mm A	STM D7415*	>30	20.8	18.9	24.3



Fuel Dilution

6.0

5.0 4 (

fuel 3

2.0

1.0

0.0

3

3

21

Abs/cm

15

3

30

25

/ps/cm

10

Dec22/23

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FT-IR (Direct Trend)

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FT-IR (Direct Trend)

Oxidation

ulfation

DC/1040

eb21/24

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 222 - Sandhill CALA : 06 Jun 2024 Sample No. : GFL0118954 Received SANDHILL DISPOSAL & RECYCLING DIVIS, 19 COMMERCE ROAD Lab Number : 02640080 Tested : 07 Jun 2024 ORANGEVILLE, ON ISO 17025:2017 Accredited Unique Number : 5789242 Diagnosed : 07 Jun 2024 - Kevin Marson CA L9W 3X5 Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) Contact: GLENN COOK To discuss this sample report, contact Customer Service at 1-800-268-2131. gcook@gflenv.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (519)940-4167 Validity of results and interpretation are based on the sample and information as supplied.

Report Id: GFL222 [WCAMIS] 02640080 (Generated: 06/07/2024 11:19:23) Rev: 1

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