

OIL ANALYSIS REPORT

Sample Rating Trend



Area [1294108] Machine Id 810049

Diesel Engine

Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

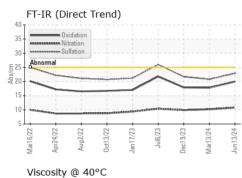
Fluid Condition

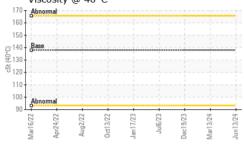
The condition of the oil is acceptable for the time in service.

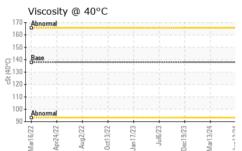
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0120021	GFL0093968	GFL0093936
Sample Date		Client Info		13 Jun 2024	13 Mar 2024	19 Dec 2023
Machine Age	hrs	Client Info		5911	5350	4884
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method	20.L	NEG	NEG	NEG
-				nea		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	29	17	43
Chromium	ppm	ASTM D5185(m)	>20	1	<1	2
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	2	6
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	2
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
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)	250	4	6	5
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	61	59	61
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)	450	976	911	948
Calcium	ppm	ASTM D5185(m)	3000	1125	1095	1212
Phosphorus	ppm	ASTM D5185(m)	1150	997	934	1037
Zinc	ppm	ASTM D5185(m)	1350	1239	1138	1210
Sulfur	ppm	ASTM D5185(m)	4250	2421	2320	2597
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	2	5
Sodium	ppm	ASTM D5185(m)	>216	7	7	8
Potassium	ppm	ASTM D5185(m)	>20	4	1	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.5	0.3	0.5
Nitration	Abs/cm	ASTM D7624*	>20	10.8	10.2	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.9	20.8	21.7



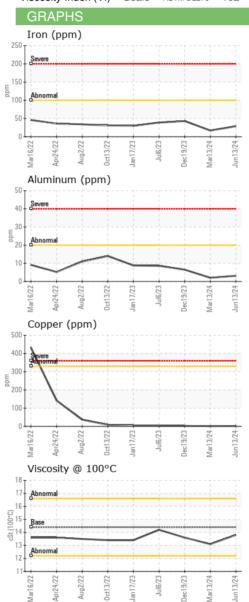
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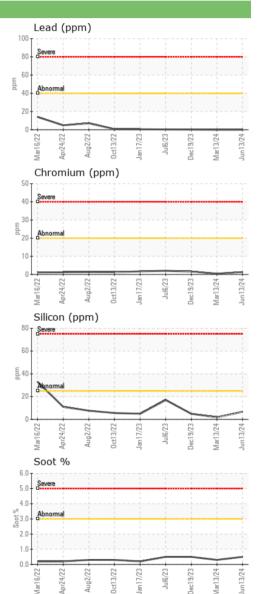






FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.0	17.8	17.9
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	138	101		
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.8	13.1	13.6
Viscosity Index (VI)	Scale	ASTM D2270*	102	137		





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 777 - Belleville-Municipal waste CALA Sample No. : GFL0120021 Received : 21 Jun 2024 197 Putman Industrial Road Lab Number : 02643349 Tested : 21 Jun 2024 Belleville, ON ISO 17025:2017 Accredited Diagnosed Unique Number : 5800888 : 21 Jun 2024 - Wes Davis CA K8N 4Z6 Laboratory Test Package : MOB 1 (Additional Tests: KV40, VI) Contact: Ian Patton To discuss this sample report, contact Customer Service at 1-800-268-2131. ipatton@gflenv.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (905)831-6297 Validity of results and interpretation are based on the sample and information as supplied. F: (905)426-3577

Report Id: GFL777 [WCAMIS] 02643349 (Generated: 06/24/2024 07:26:11) Rev: 1

Submitted By: Shane Cater

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