

OIL ANALYSIS REPORT

Sample Rating Trend



Area [1132764] Machine Id 810047

Component 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

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.

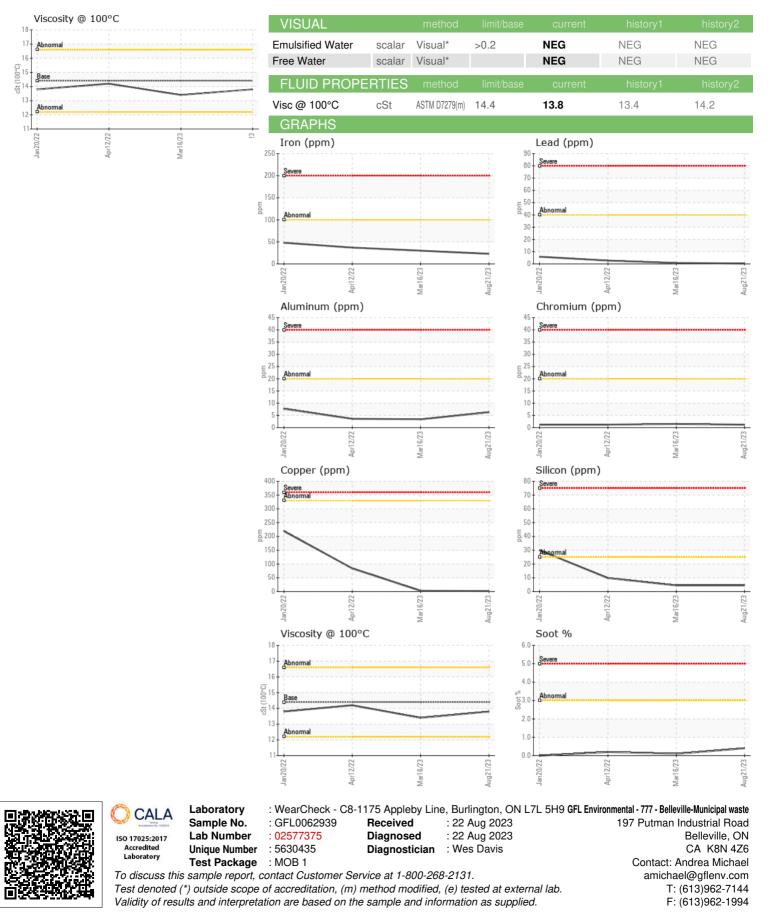
Fluid Condition

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

		Jan202	2 Apr2022	Mar2023 Ar	ig2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0062939	GFL0062909	GFL0041333	
Sample Date		Client Info		21 Aug 2023	16 Mar 2023	12 Apr 2022	
Machine Age	hrs	Client Info		4294	3373	1137	
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	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	23	30	37	
Chromium	ppm	ASTM D5185(m)	>20	1	2	1	
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	<1	0	
Silver	ppm	ASTM D5185(m)	>3	<1	0	<1	
Aluminum	ppm	ASTM D5185(m)	>20	6	3	4	
Lead	ppm	ASTM D5185(m)	>40	<1	<1	3	
Copper	ppm	ASTM D5185(m)	>330	2	3	84	
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<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	5	4	23	
Barium	ppm	ASTM D5185(m)	10	0	0	1	
Molybdenum	ppm	ASTM D5185(m)	100	59	60	68	
Manganese	ppm	ASTM D5185(m)		<1	<1	2	
Magnesium	ppm	ASTM D5185(m)	450	959	951	959	
Calcium	ppm	ASTM D5185(m)	3000	1069	1105	1181	
Phosphorus	ppm	ASTM D5185(m)	1150	1040	1071	968	
Zinc	ppm	ASTM D5185(m)	1350	1188	1179	1172	
Sulfur	ppm	ASTM D5185(m)	4250	2486	2453	2162	
Lithium	ppm	ASTM D5185(m)		<1	<1	<1	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	4	4	10	
Sodium	ppm	ASTM D5185(m)	>216	7	7	7	
Potassium	ppm	ASTM D5185(m)	>20	13	3	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.4	0.1	0.2	
Nitration	Abs/cm	ASTM D7624*	>20	8.6	6.4	9.4	
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.8	18.6	22.7	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.1	10.5	18.0	
32:27) Rev: 1				Contact/Loc	Contact/Location: Andrea Michael - GFL777		



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