

OIL ANALYSIS REPORT

Sample Rating Trend



931039 Component Natural Gas Engine Fluid

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Machine Id

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.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0119237	GFL0102923	GFL0066639
Sample Date		Client Info		21 Jun 2024	24 Jan 2024	19 Dec 2022
Machine Age	hrs	Client Info		4442	3595	14635
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	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	21	41	87
Chromium	ppm	ASTM D5185(m)	>5	2	3	5
Nickel	ppm	ASTM D5185(m)	>4	<1	2	2
Titanium	ppm	ASTM D5185(m)	>5	0	0	19
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	17	33	40
Lead	ppm	ASTM D5185(m)	>40	2	8	3
Copper	ppm	ASTM D5185(m)	>150	1	3	18
Tin	ppm	ASTM D5185(m)	>4	<1	1	2
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	<1
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	7	6	5
Barium	ppm	ASTM D5185(m)	10	<1	0	4
Molybdenum	ppm	ASTM D5185(m)	100	53	56	56
Manganese	ppm	ASTM D5185(m)		<1	1	11
Magnesium	ppm	ASTM D5185(m)	450	543	595	564
Calcium	ppm	ASTM D5185(m)	3000	1609	1773	1592
Phosphorus	ppm	ASTM D5185(m)	1150	654	758	782
Zinc	ppm	· /	1350	882	967	891
Sulfur	ppm	ASTM D5185(m)	4250	1972	2140	2044
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	7	33
Silicon Sodium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>25 >158	4 8	7 10	33 8
Sodium	ppm	ASTM D5185(m)	>158	8	10	8
Sodium Potassium	ppm	ASTM D5185(m) ASTM D5185(m)	>158 >20	8 22	10 56	8 111
Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185(m) ASTM D5185(m) method	>158 >20	8 22 current	10 56 history1	8 111 history2
Sodium Potassium INFRA-RED Soot %	ppm ppm	ASTM D5185(m) ASTM D5185(m) method ASTM D7844*	>158 >20 limit/base	8 22 current 0	10 56 history1 0	8 111 history2 0
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185(m) ASTM D5185(m) method ASTM D7844* ASTM D7624* ASTM D7415*	>158 >20 limit/base >20	8 22 current 0 11.4	10 56 history1 0 12.6	8 111 history2 0 11.5



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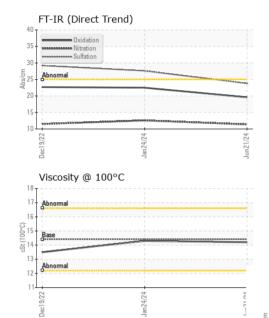
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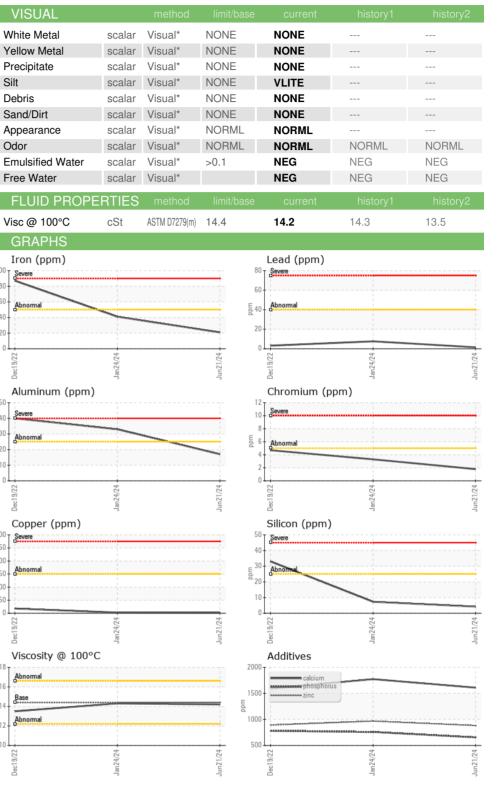
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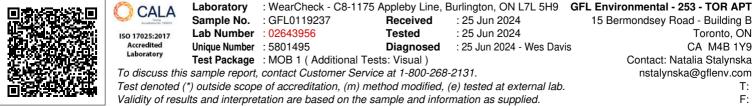
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