

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 414087 Component 1 Diesel Engine Fluid NOT GIVEN (10 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

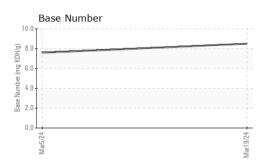
Fluid Condition

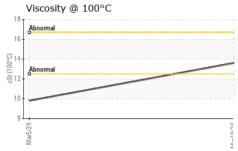
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

			A. 2024	Mar2024		
			Mar2024		In the second	la ta ta ma
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109119	GFL0109175	
Sample Date		Client Info		19 Mar 2024	05 Mar 2024	
Machine Age	hrs	Client Info		718	579	
Oil Age	hrs	Client Info		139	579	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.6	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	6	34	
Chromium	ppm	ASTM D5185m	>20	0	<1	
Nickel	ppm	ASTM D5185m	>5	1	5	
Titanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>20	1	10	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	23	170	
Tin	ppm	ASTM D5185m	>15	0	3	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		15	239	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		61	114	
Manganese	ppm	ASTM D5185m		<1	4	
Magnesium	ppm	ASTM D5185m		1007	701	
Calcium	ppm	ASTM D5185m		1130	1372	
Phosphorus	ppm	ASTM D5185m		1061	690	
Zinc	ppm	ASTM D5185m		1270	810	
Sulfur	ppm	ASTM D5185m		3719	2298	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	5 7	
Sodium	ppm	ASTM D5185m		<1	4	
Potassium	ppm	ASTM D5185m	>20	2	23	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	5.6	9.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	24.3	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	22.7	
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	7.6	

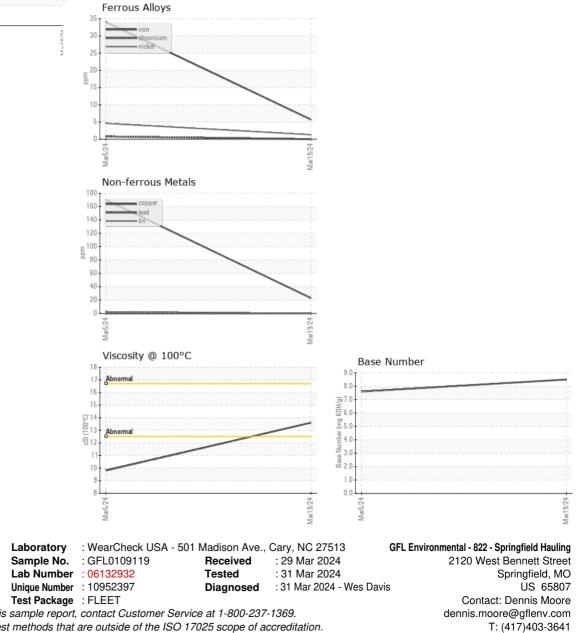


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		13.6	9.8	
GRAPHS						





Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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