

OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- 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

All component wear rates are normal.

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.

			Dec2022	Dec2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098437	GFL0058704	
Sample Date		Client Info		20 Dec 2023	26 Dec 2022	
Machine Age	hrs	Client Info		27909	25205	
Oil Age	hrs	Client Info		27909	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
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	>100	13	9	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	<1	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	<1	<1	
Tin	ppm	ASTM D5185m	>15	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	2	95	
Barium	ppm	ASTM D5185m	10	8	1	
Molybdenum	ppm	ASTM D5185m	100	66	60	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	450	1027	923	
Calcium	ppm	ASTM D5185m	3000	1135	1073	
Phosphorus	ppm	ASTM D5185m	1150	996	1016	
Zinc	ppm	ASTM D5185m	1350	1275	1188	
Sulfur	ppm	ASTM D5185m	4250	3180	3908	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	9	
Sodium	ppm	ASTM D5185m	>158	0	1	
Potassium	ppm	ASTM D5185m	>20	2	1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	7.4	5.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	18.1	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	14.1	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.4	9.1	



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Dec26/22

OIL ANALYSIS REPORT

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NONE

VISUAL

White Metal

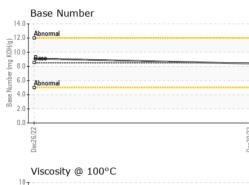
Yellow Metal

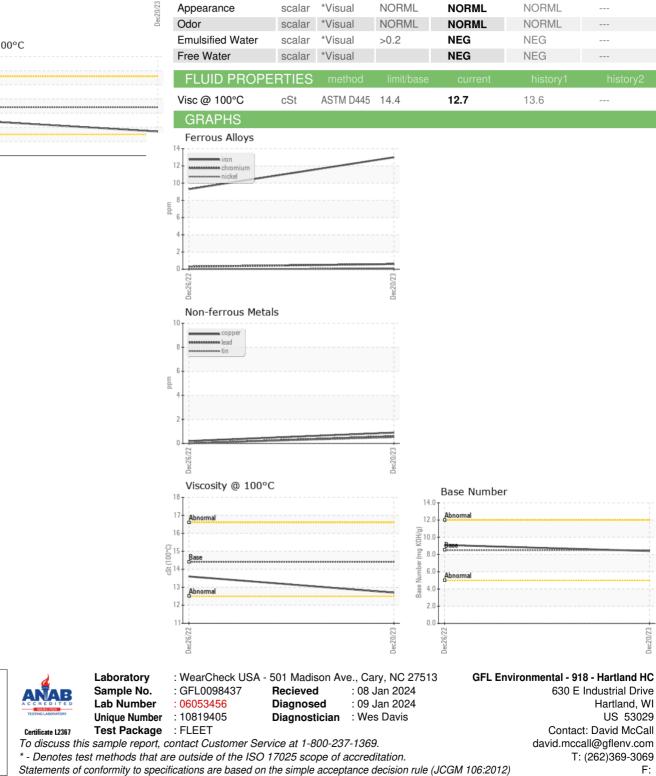
Precipitate

Silt

Debris

Sand/Dirt





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