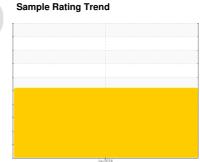


OIL ANALYSIS REPORT





Machine Id **8811157**

Component

Diesel Engine

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

The lead level is abnormal. Cylinder, crank, or cam shaft wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

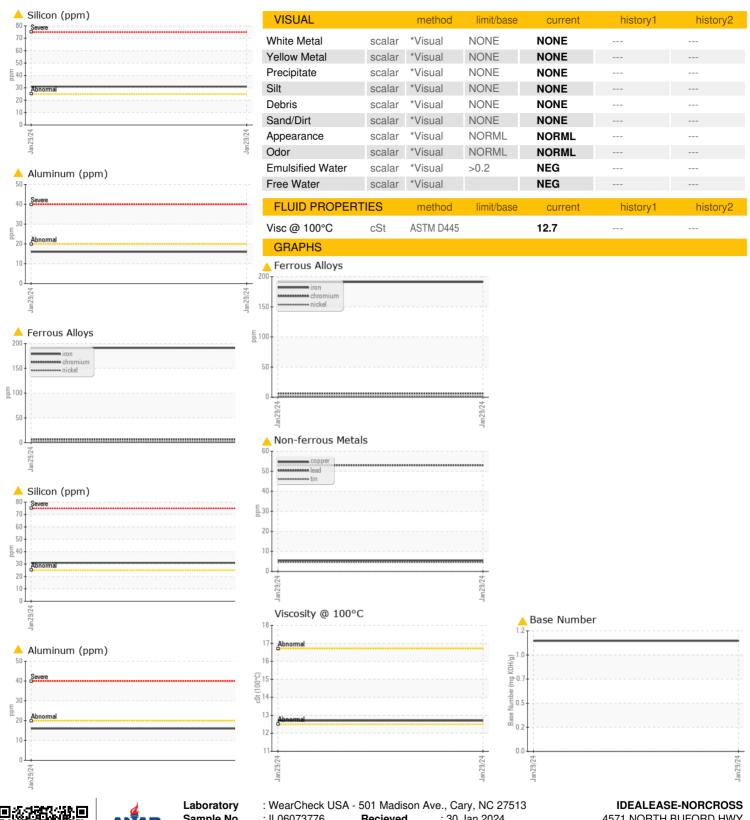
Fluid Condition

The BN level is low.

SAMPLE INFORMATION method limit/base current history1 history2			L		Jan 2024		
Sample Date Client Info 29 Jan 2024 Machine Age mis Client Info 0 Oil Age mis Client Info N/A Oil Changed Client Info N/A Sample Status Image: Client Info N/A CONTAMINATION method Imilibase current history1 history2 Fuel WC Method >5 <1.0 Water WC Method >0.2 NEG Glycol WC Method >0.2 NEG Ricron ppm ASTM 05185m >10 191 Iron ppm ASTM 05185m >20 6 Nickel ppm ASTM 05185m >3 0 Aluminum ppm ASTM 05185m >3 0	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 29 Jan 2024 Machine Age mis Client Info 0 Oil Age mis Client Info N/A Oil Changed Client Info N/A Sample Status Image: Client Info N/A CONTAMINATION method Imilibase current history1 history2 Fuel WC Method >5 <1.0	Sample Number		Client Info		IL06073776		
Machine Age mls Client Info 0			Client Info		29 Jan 2024		
Oil Changed Sample Status Client Info N/A	•	mls	Client Info		0		
Oil Changed Sample Status Client Info N/A ABNORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5.5 <1.0	Oil Age	mls	Client Info		0		
Sample Status method limit/base current history1 history2 Fuel WC Method >5 <1.0	-		Client Info		N/A		
Fuel WC Method Vol. 2 NEG NEG					ABNORMAL		
Water Glycol WC Method Glycol >0.2 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 191 Chromium ppm ASTM D5185m >20 6 Nickel ppm ASTM D5185m >4 <1	CONTAMINATION	١	method	limit/base	current	history1	history2
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Iron	Glycol		WC Method		NEG		
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Titanium ppm ASTM D5185m 1 Silver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >20 16 Lead ppm ASTM D5185m >40 53 Copper ppm ASTM D5185m >15 5 Tin ppm ASTM D5185m >15 5 Vanadium ppm ASTM D5185m 11 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 Mala	Chromium	ppm	ASTM D5185m	>20	6		
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Sulfur ppm ASTM D5185m 3131 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 31 Sodium ppm ASTM D5185m >20 14 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 Nitration Abs/cm *ASTM D7624 >20 21.1 Sulfation Abs/.1mm *ASTM D7415 >30 43.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 56.5	Phosphorus	ppm	ASTM D5185m		880		
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Nitration Abs/cm *ASTM D7624 >20 21.1 Sulfation Abs/.1mm *ASTM D7415 >30 43.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 56.5	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 43.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 56.5	Soot %	%	*ASTM D7844	>3	1.3		
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 56.5	Nitration	Abs/cm	*ASTM D7624	>20	21.1		
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	43.1		
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	56.5		
		mg KOH/g			<u> </u>		



OIL ANALYSIS REPORT





Certificate L2367

Sample No. Lab Number Unique Number Test Package : FLEET

: IL06073776 : 06073776 : 10855867

: 30 Jan 2024 Recieved Diagnosed : 02 Feb 2024

: Jonathan Hester Diagnostician

4571 NORTH BUFORD HWY NORCROSS, GA US 30071-2808 Contact: RICK MARKS

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)

F: (770)300-0614

T: