

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



H1860918

Component **Diesel Engine**

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

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. 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

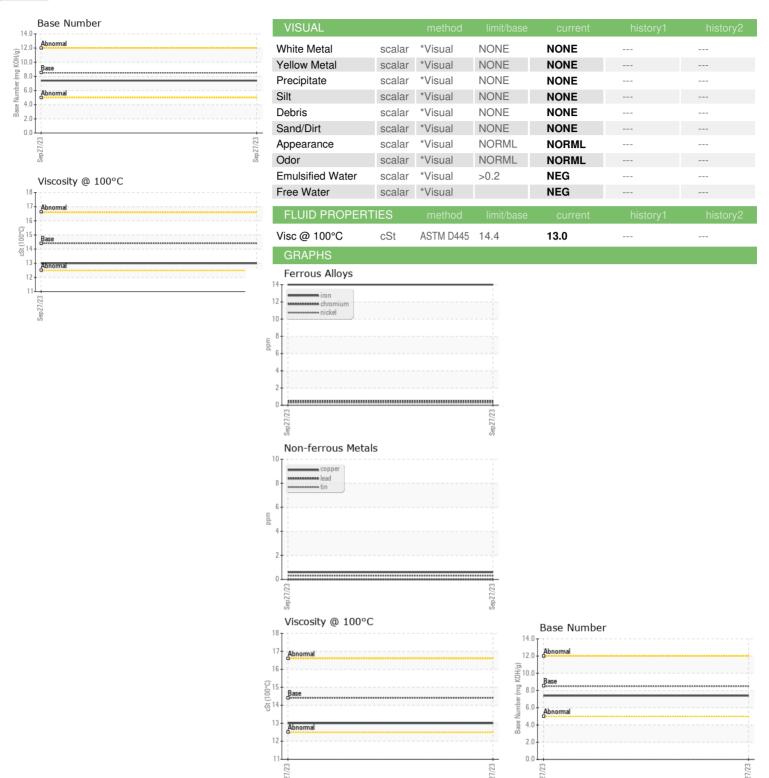
Fluid Condition

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

Machine Age hrs Client Info 1510							
Sample Number Client Info JR0179209			<u>, </u>		Sep 2023		
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 1510	Sample Number		Client Info		JR0179209		
Oil Age hrs Client Info Changed	Sample Date		Client Info		27 Sep 2023		
Contamped Client Info Changed Normal Contamped Contamp	Machine Age	hrs	Client Info		1510		
CONTAMINATION	Oil Age	hrs	Client Info		0		
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0	Oil Changed		Client Info		Changed		
Fuel	Sample Status				NORMAL		
WEAR METALS	CONTAMINATIO	N	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>5	<1.0		
Iron	Glycol		WC Method		NEG		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Chromium ppm ASTM D5185m >20 <1 Nickel ppm ASTM D5185m >4 <1	Iron	maa	ASTM D5185m	>100	14		
Nickel							
Titanium							
Silver							
Aluminum ppm ASTM D5185m >20 2 Lead ppm ASTM D5185m >40 0 Copper ppm ASTM D5185m >330 <1				>3			
Lead							
Copper ppm ASTM D5185m >330 <1 Tin ppm ASTM D5185m >15 <1							
Tin							
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 27 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 47 Manganese ppm ASTM D5185m 100 47 Magnesium ppm ASTM D5185m 450 303 Calcium ppm ASTM D5185m 3000 1961 Phosphorus ppm ASTM D5185m 1350 1253 Sulfur ppm ASTM D5185m 25 10 CONTAMINANTS method limit/base current hist							
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Potassium ppm ASTM D5185m >20 5 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 Nitration Abs/cm *ASTM D7624 >20 9.0 Sulfation Abs/.1mm *ASTM D7415 >30 19.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6	Sodium		ASTM D5185m	>158	2		
Soot % % *ASTM D7844 >3 0.2 Nitration Abs/cm *ASTM D7624 >20 9.0 Sulfation Abs/.1mm *ASTM D7415 >30 19.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6	Potassium				5		
Nitration Abs/cm *ASTM D7624 >20 9.0 Sulfation Abs/.1mm *ASTM D7415 >30 19.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6	INFRA-RED		method	limit/base	current	history1	history2
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Sulfation Abs/.1mm *ASTM D7415 >30 19.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6	Nitration	Abs/cm	*ASTM D7624	>20	9.0		
Oxidation Abs/.1mm *ASTM D7414 >25 15.6							
	FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.4		



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: JR0179209 : 05966054 : 10672605

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Oct 2023 Diagnosed

: 02 Oct 2023 Diagnostician : Wes Davis

Test Package : CONST (Additional Tests: TBN)

US 23005 Contact: John Deere jon.fazenbaker@wearcheck.com T:

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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