



OIL ANALYSIS REPORT



Machine Id
JOHN DEERE 300DII 513 (S/N 1DW300DXJFE667370)
 Component
Front Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

Sample Rating Trend



DEGRADATION



DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

Moderate concentration of visible dirt/debris present in the oil.

▲ Fluid Condition

The AN level is above the recommended limit.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0960428	---	---
Sample Date	Client Info	31 May 2024	---	---
Machine Age	hrs Client Info	7801	---	---
Oil Age	hrs Client Info	3140	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.075	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >750	37	---	---
Chromium ppm	ASTM D5185m >9	<1	---	---
Nickel ppm	ASTM D5185m >10	0	---	---
Titanium ppm	ASTM D5185m	0	---	---
Silver ppm	ASTM D5185m	0	---	---
Aluminum ppm	ASTM D5185m >40	3	---	---
Lead ppm	ASTM D5185m >15	0	---	---
Copper ppm	ASTM D5185m >40	11	---	---
Tin ppm	ASTM D5185m >10	0	---	---
Vanadium ppm	ASTM D5185m	0	---	---
Cadmium ppm	ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	2	---	---
Barium ppm	ASTM D5185m	0	---	---
Molybdenum ppm	ASTM D5185m	34	---	---
Manganese ppm	ASTM D5185m	<1	---	---
Magnesium ppm	ASTM D5185m	<1	---	---
Calcium ppm	ASTM D5185m	<1	---	---
Phosphorus ppm	ASTM D5185m	2350	---	---
Zinc ppm	ASTM D5185m	20	---	---
Sulfur ppm	ASTM D5185m	27437	---	---

CONTAMINANTS

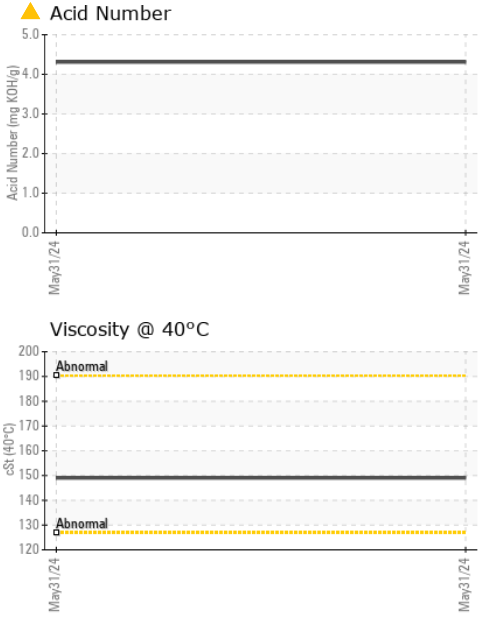
method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >75	3	---	---
Sodium ppm	ASTM D5185m >51	3	---	---
Potassium ppm	ASTM D5185m >20	<1	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	▲ 4.31	---	---



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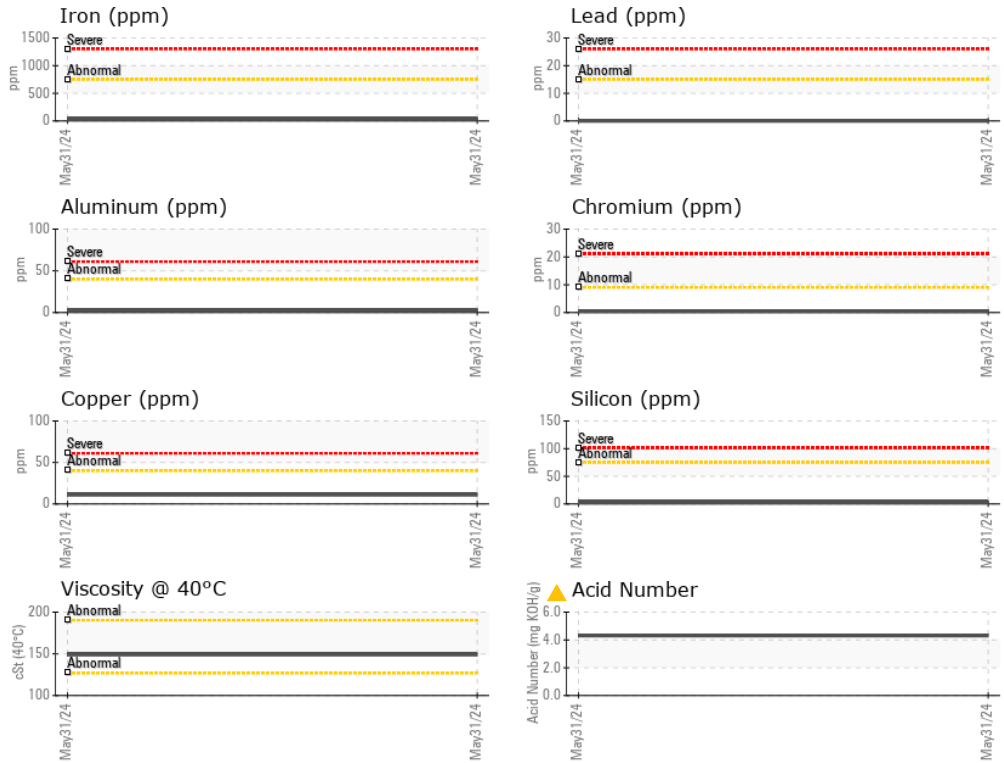
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	▲ MODER	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.075	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	149	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0960428 **Received** : 15 Jul 2024
Lab Number : 06237007 **Tested** : 18 Jul 2024
Unique Number : 11125841 **Diagnosed** : 18 Jul 2024 - Jonathan Hester
Test Package : MOB 2

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)

BIG 4 INC
 301 WORTH ST
 HEMPHILL, TX
 US 75948

Contact: JODIE MCGEE
jodie.mcgee@big4inc.com

T: (936)275-7532

F: (409)787-2071