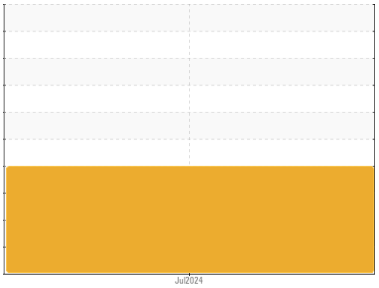
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
JOHN DEERE 350DLC JOHNDEERE350DLC
Component
Left Final Drive
Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 90 Gear Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

Wear

Aluminum ppm levels are noted. All other component wear rates are normal.

Contamination

There is a moderate concentration of water present in the oil. Free water present. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0763265**	---	---
Sample Date		Client Info		**11 Jul 2024**	---	---
Machine Age	hrs	Client Info		**10673**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**ABNORMAL**	---	---

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

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>1250	**40**	---	---
Iron	ppm	ASTM D5185(m)	>750	**382**	---	---
Chromium	ppm	ASTM D5185(m)	>9	**2**	---	---
Nickel	ppm	ASTM D5185(m)	>10	**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**3**	---	---
Silver	ppm	ASTM D5185(m)		**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>40	**39**	---	---
Lead	ppm	ASTM D5185(m)	>15	**0**	---	---
Copper	ppm	ASTM D5185(m)	>40	**5**	---	---
Tin	ppm	ASTM D5185(m)	>10	**0**	---	---
Antimony	ppm	ASTM D5185(m)	>5	**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**42**	---	---
Barium	ppm	ASTM D5185(m)		**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)		**0**	---	---
Manganese	ppm	ASTM D5185(m)		**4**	---	---
Magnesium	ppm	ASTM D5185(m)		**22**	---	---
Calcium	ppm	ASTM D5185(m)		**61**	---	---
Phosphorus	ppm	ASTM D5185(m)		**989**	---	---
Zinc	ppm	ASTM D5185(m)		**31**	---	---
Sulfur	ppm	ASTM D5185(m)		**18434**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	**156**	---	---
Sodium	ppm	ASTM D5185(m)	>51	**7**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**16**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	---	---
Nitration	Abs/cm	ASTM D7624*		**3.9**	---	---
Sulfation	Abs/.1mm	ASTM D7415*		**15.8**	---	---

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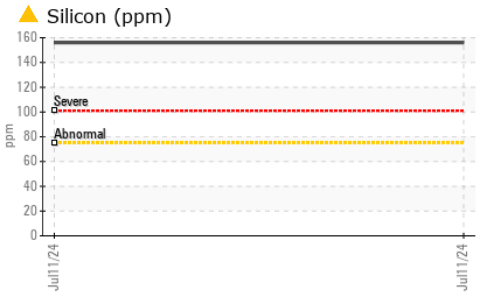

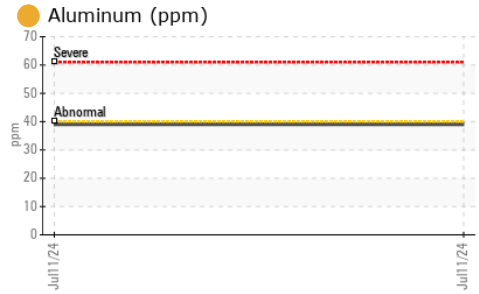

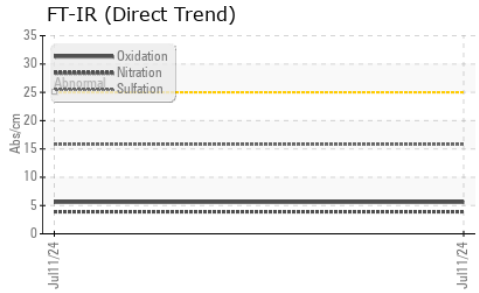

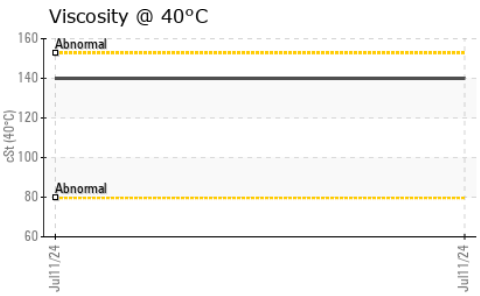

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		**5.6**	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		**2.11**	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		**2.56**	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**LIGHT**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**NONE**	---	---
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**NONE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	---	---
Appearance	scalar	Visual*	NORML	**NORML**	---	---
Odor	scalar	Visual*	NORML	**NORML**	---	---
Emulsified Water	scalar	Visual*	>0.075	▲ **.2%**	---	---
Free Water	scalar	Visual*		▲ **1%**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		**140**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		**14.5**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		**102**	---	---

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

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0763265
Lab Number : 02647537
Unique Number : 5813089
Test Package : MOB 2 (Additional Tests: FT-IR, Glycol, KV100, PQ, TAN Man, TBN, VI)
Received : 12 Jul 2024
Tested : 16 Jul 2024
Diagnosed : 16 Jul 2024 - Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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