



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
JOHN DEERE 350DLC JOHNDERE350DLC
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 40 (--- 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. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

▲ Wear

Iron ppm levels are severe. Cylinder, crank, or cam shaft wear is indicated.

▲ Contamination

There is a moderate concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0763264	---	---
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			SEVERE	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.1	<1.0	---	---
Water	WC Method	>0.21	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*	>50	28	---	---
Iron	ppm	ASTM D5185(m)	>45	▲ 433	---
Chromium	ppm	ASTM D5185(m)	>11	4	---
Nickel	ppm	ASTM D5185(m)	>5	2	---
Titanium	ppm	ASTM D5185(m)		<1	---
Silver	ppm	ASTM D5185(m)	>3	<1	---
Aluminum	ppm	ASTM D5185(m)	>31	9	---
Lead	ppm	ASTM D5185(m)	>26	2	---
Copper	ppm	ASTM D5185(m)	>26	39	---
Tin	ppm	ASTM D5185(m)	>4	1	---
Antimony	ppm	ASTM D5185(m)		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)	250	53	---
Barium	ppm	ASTM D5185(m)	10	0	---
Molybdenum	ppm	ASTM D5185(m)	100	91	---
Manganese	ppm	ASTM D5185(m)		3	---
Magnesium	ppm	ASTM D5185(m)	450	182	---
Calcium	ppm	ASTM D5185(m)	3000	1896	---
Phosphorus	ppm	ASTM D5185(m)	1150	952	---
Zinc	ppm	ASTM D5185(m)	1350	1060	---
Sulfur	ppm	ASTM D5185(m)	4250	3293	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

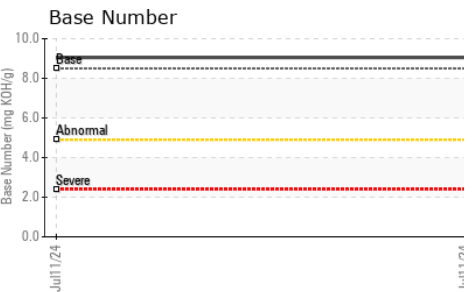
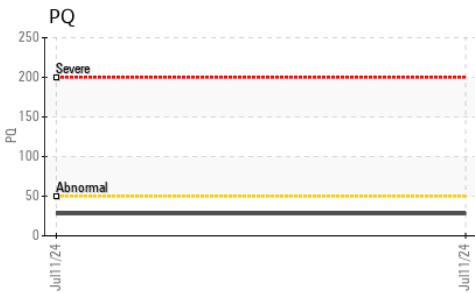
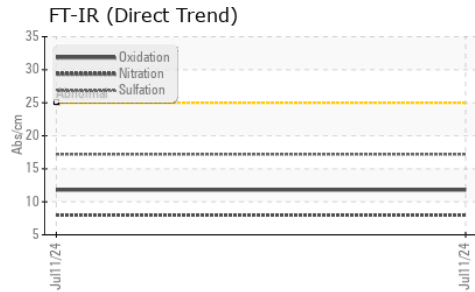
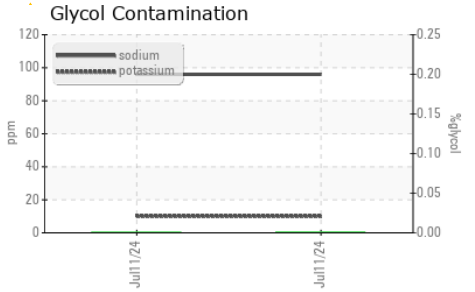
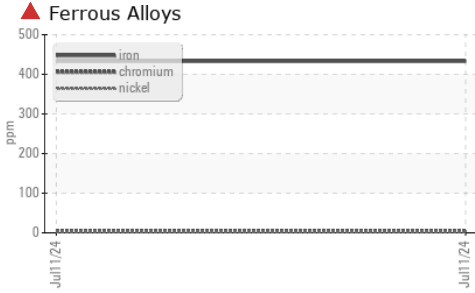
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	▲ 22	---
Sodium	ppm	ASTM D5185(m)	>216	96	---
Potassium	ppm	ASTM D5185(m)	>20	10	---
Glycol	%	ASTM D7922*		0.0	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1	---
Nitration	Abs/cm	ASTM D7624*	>20	8.0	---
Sulfation	Abs./1mm	ASTM D7415*	>30	17.2	---



OIL ANALYSIS REPORT

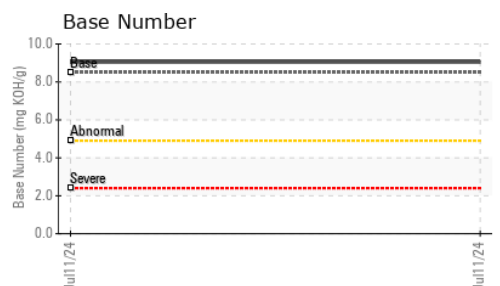
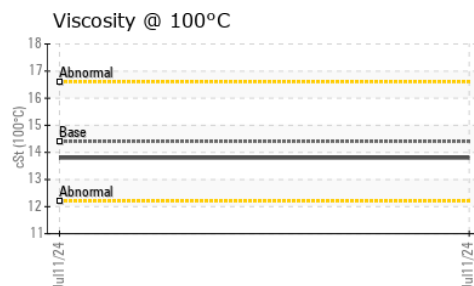
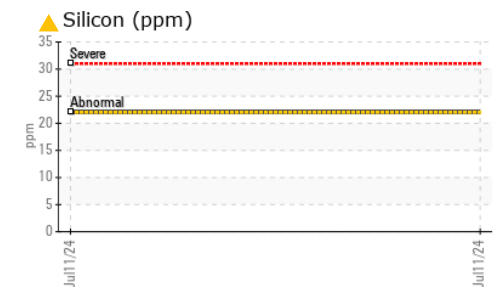
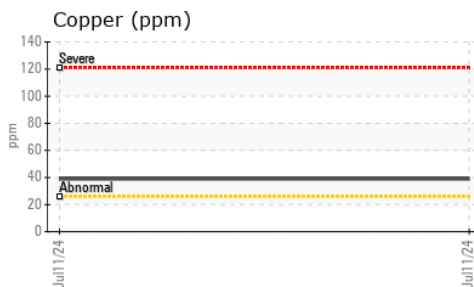
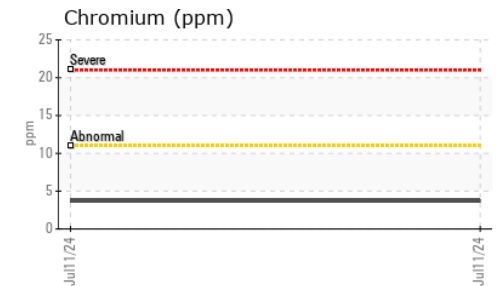
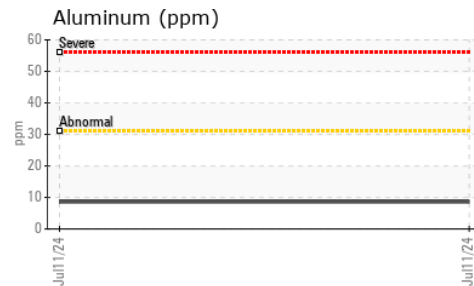
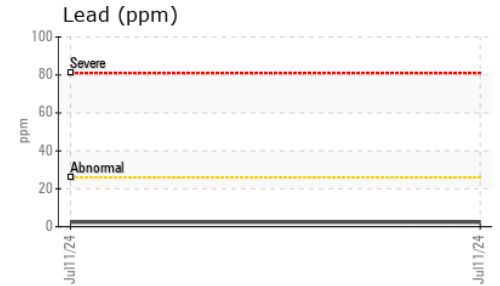
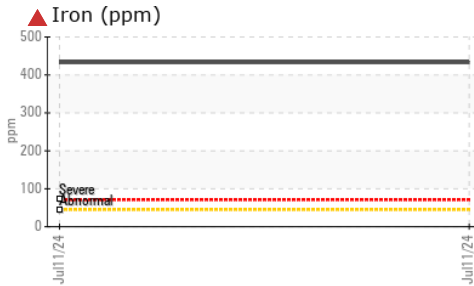


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	11.8	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	9.05	---	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.21	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.8	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0763264
Lab Number : 02647538
Unique Number : 5813090
Test Package : MOB 2 (Additional Tests: Glycol, PQ)

GF PRESTON SALES AND SERVICE
 PO BOX 540,, 289 ALBERT STREET
 SUNDRIDGE, ON
 CA P0A 1Z0
 Contact: Chad Preston
 chad@gfpreston.com

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.

T:
 F: (705)384-7461