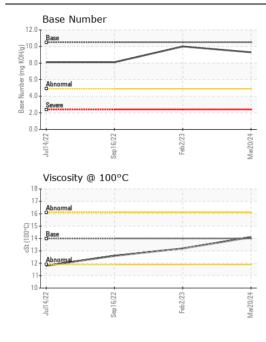
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

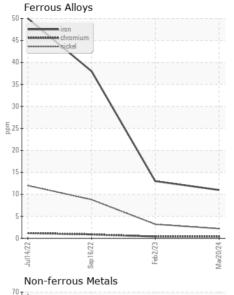
JOHN DEERE 470G 1FF470GXVMF236782

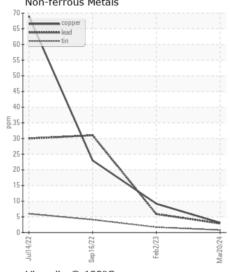
Component Diesel Engine

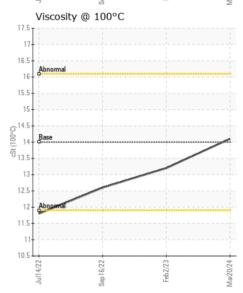
IOHN DEERE ENGINE OIL PLUS 50 ILOW40 (48 QTS)

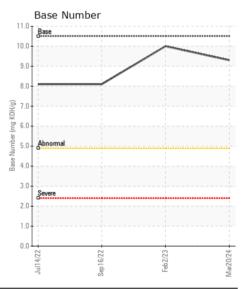
JOHN DEERE ENGINE OIL PLUS 50 II 0W40 (48	3 QTS)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TLE SSIMILE REPORTED TO	Sample Number		Client Info		JR0208796	,	JR0132246
Resample at the next service interval to monitor.	Sample Date		Client Info		20 Mar 2024	02 Feb 2023	16 Sep 2022
	Machine Age	hrs	Client Info		1976	1571	1429
	Oil Age	hrs	Client Info		1976	142	500
	Filter Age	hrs	Client Info		0	142	500
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				NORMAL	MARGINAL	_
WEAR	Iron	ppm	ASTM D5185m	>51	11	13	38
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	2	3	9
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>31	3	4	9
	Lead	ppm	ASTM D5185m	>26	3	6	31
	Copper	ppm	ASTM D5185m	>26	3	9	23
	Tin	ppm	ASTM D5185m	>4	<1	2	4
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTANUNATION						_	
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	7	9
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4	4	16
	Fuel		WC Method		<1.0	▲ 3.0	5.9
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	21	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.3	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	5.4	8.8	13.5
	Sulfation	Abs/.1mm	*ASTM D7415		18.6	21.5	29.5
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual *Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar		NONE	NONE	NONE	NONE NORML
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML	NORML NORML	NORML
	Emulsified Water		*Visual	>0.21	NORML NEG	NEG	NEG
		Scalai	VISUAI	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	<1	3	5
	Boron	ppm	ASTM D5185m		81	233	69
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		2	0	0
	Molybdenum	ppm	ASTM D5185m		76	241	270
	Manganese	ppm	ASTM D5185m		<1	<1	2
	Magnesium	ppm	ASTM D5185m		407	818	797
	Calcium	ppm	ASTM D5185m		1788	1406	1491
	Phosphorus	ppm	ASTM D5185m		1023	860	898
	Zinc	ppm	ASTM D5185m		1206	1048	1120
	Sulfur	ppm	ASTM D5185m		3817	3556	2873
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	16.4	27.1
	Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.3	10.0	8.1
	Visc @ 100°C	cSt	ASTM D445		14.1	13.2	12.6













Laboratory Sample No. Unique Number: 10938904

: JR0208796 **Lab Number** : 06124753

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Mar 2024 **Tested**

Diagnosed

: 22 Mar 2024 : 25 Mar 2024 - Sean Felton

JRE - GREENVILLE 3604 HIGHWAY 264 E GREENVILLE, NC US 27834-5800 Contact: GREENVILLE SHOP

Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369. christopher.martin@jamesriverequipment.com

* - 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)

T: F: