

# **OIL ANALYSIS REPORT**

#### Sample Rating Trend

# NORMAL



# [W47160] Machine Id JOHN DEERE 650H 1T0650HX939482

**Diesel Engine** 

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- LTR)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Moar

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

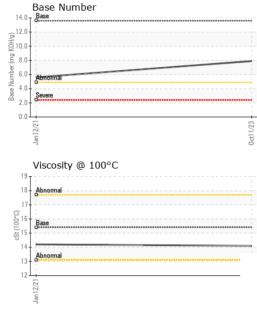
#### **Fluid Condition**

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

	,		Jan2021	0ct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0179274	JR0067692	
Sample Date		Client Info		11 Oct 2023	12 Jan 2021	
Machine Age	hrs	Client Info		3321	2847	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	29	82	
Chromium	ppm	ASTM D5185m	>11	<1	2	
Nickel	ppm	ASTM D5185m	>5	<1	2	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>31	5	8	
Lead	ppm	ASTM D5185m	>26	20	33	
Copper	ppm	ASTM D5185m	>26	4	25	
Tin	ppm	ASTM D5185m	>4	<1	2	
Antimony	ppm	ASTM D5185m			<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		185	54	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		229	38	
Manganese	ppm	ASTM D5185m		<1	1	
Magnesium	ppm	ASTM D5185m		775	344	
Calcium	ppm	ASTM D5185m		1598	2077	
Phosphorus	ppm	ASTM D5185m		861	939	
Zinc	ppm	ASTM D5185m		1071	1240	
Sulfur	ppm	ASTM D5185m		2880	2882	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	7	6	
Sodium	ppm	ASTM D5185m	>31	2	6	
Potassium	ppm	ASTM D5185m	>20	0	<1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	9.6	10.7	
			>30	24.1	26.6	
Sulfation	Abs/.1mm	ASTIVID/413	- 00			
FLUID DEGRADA		method	limit/base		history1	history2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
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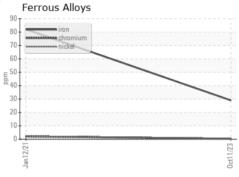


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.21	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	TIFS.	method	limit/hase	current	history1	history2

14.1

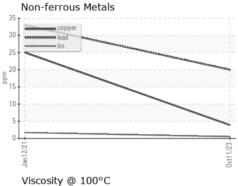
14.2

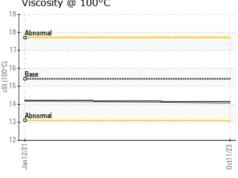
Visc @ 100°C
GRAPHS

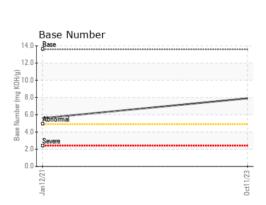


cSt

ASTM D445 15.4









Laboratory Sample No. Lab Number Unique Number : 10699554

: JR0179274 : 05982259

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

: 18 Oct 2023 : 19 Oct 2023 Diagnostician : Wes Davis

Test Package : CONST ( Additional Tests: TBN )

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.

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005

Contact: DAVID ZIEG

dzieg@jamesriverequipment.com T: (804)798-6001

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: JAMASH [WUSCAR] 05982259 (Generated: 10/20/2023 06:34:28) Rev: 1 Contact/Location: DAVID ZIEG - JAMASH

F: (804)798-0292