

# **OIL ANALYSIS REPORT**

Sample Rating Trend

WEAR

# JOHN DEERE 748L 1DW748LBHPL717148

Component

Discol Engine

**Diesel Engine** 

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

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## Wear

The copper level is abnormal. All other metal levels are typical for a new component breaking in.

### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

### Fluid Condition

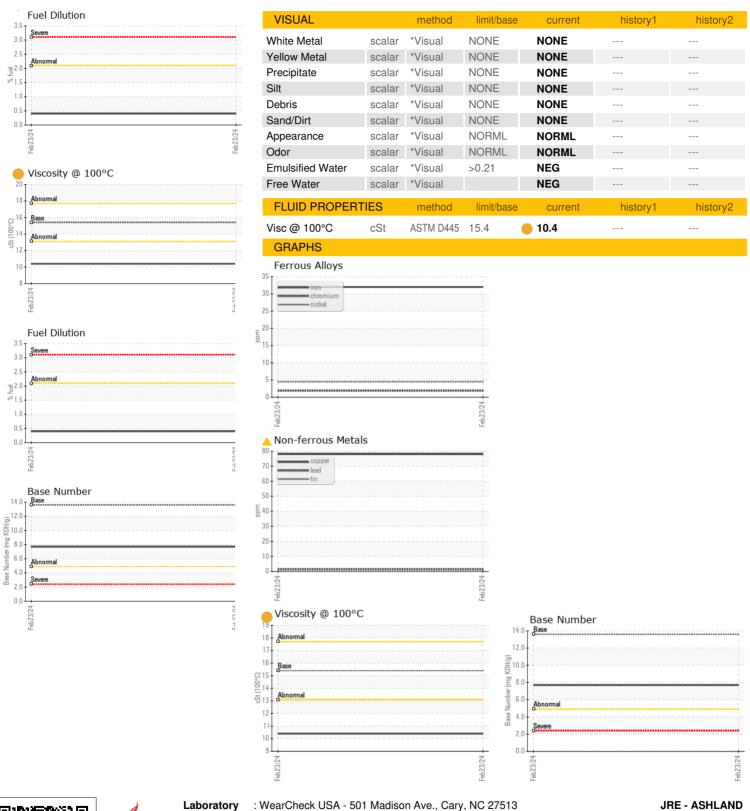
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

0 ( GAL)				Feb2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0199707		
Sample Date		Client Info		23 Feb 2024		
Machine Age	hrs	Client Info		585		
Dil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
ample Status				ABNORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Vater		WC Method	>0.21	NEG		
ilycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
on	ppm	ASTM D5185m	>51	32		
Chromium	ppm	ASTM D5185m	>11	2		
lickel	ppm	ASTM D5185m	>5	4		
itanium	ppm	ASTM D5185m		<1		
ilver	ppm	ASTM D5185m	>3	0		
luminum	ppm	ASTM D5185m	>31	5		
ead	ppm	ASTM D5185m	>26	1		
opper	ppm	ASTM D5185m	>26	<b>^</b> 78		
in	ppm	ASTM D5185m	>4	2		
anadium	ppm	ASTM D5185m		<1		
admium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		105		
arium	ppm	ASTM D5185m		4		
lolybdenum	ppm	ASTM D5185m		243		
langanese	ppm	ASTM D5185m		6		
lagnesium	ppm	ASTM D5185m		830		
alcium	ppm	ASTM D5185m		1296		
hosphorus	ppm	ASTM D5185m		896		
inc	ppm	ASTM D5185m		1091		
ulfur	ppm	ASTM D5185m		3113		
CONTAMINANTS	i	method	limit/base	current	history1	history2
ilicon	ppm	ASTM D5185m	>22	14		
Sodium	ppm	ASTM D5185m	>31	7		
otassium	ppm	ASTM D5185m	>20	7		
uel	%	ASTM D3524	>2.1	0.4		
INFRA-RED		method	limit/base	current	history1	history2
oot %	%	*ASTM D7844	>3	0.5		
litration	Abs/cm	*ASTM D7624	>20	9.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
oxidation	Abs/.1mm	*ASTM D7414	>25	17.4		
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.7		

Contact/Location: DAVID ZIEG - JAMASH



## **OIL ANALYSIS REPORT**





Laboratory Sample No.

Lab Number : 06101456

: JR0199707 **Unique Number** : 10899686

Received : 27 Feb 2024 **Tested** Diagnosed

: 04 Mar 2024

: 04 Mar 2024 - Jonathan Hester Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

11047 LEADBETTER RD ASHLAND, VA US 23005 Contact: DAVID ZIEG

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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\* - 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)

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Contact/Location: DAVID ZIEG - JAMASH