

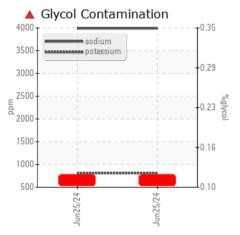
PROBLEM SUMMARY

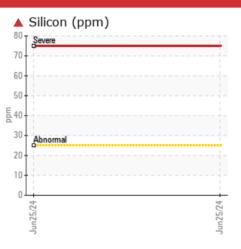
Machine Id NOT GIVEN JR0207338 - 8543 HRS (S/N NO INFO ON SIF/BOTTLE)

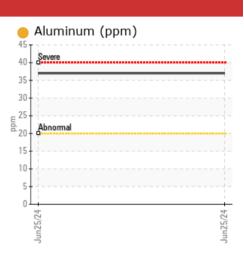
Diesel Engine

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

COMPONENT CONDITION SUMMARY







GLYCOL

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. 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 and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

PROBLEMATIC T	EST RE	SULTS			
Sample Status				SEVERE	
Silicon	ppm	ASTM D5185m	>25	A 75	
Sodium	ppm	ASTM D5185m		<u> </u>	
Potassium	ppm	ASTM D5185m	>20	<u> </u>	
Glycol	%	*ASTM D2982		4 0.12	

Customer Id: JAMSALJR Sample No.: JR0207338 Lab Number: 06220829 Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

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RECOMMENDED A	CTIONS			
Action	Status	Date	Done By	Description
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample			?	We recommend an early resample to monitor this condition.
Check Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.
Check Glycol Access			?	We advise that you check for the source of the coolant leak.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

GLYCOL

X

Machine Id NOT GIVEN JR0207338 - 8543 HRS (S/N NO INFO ON SIF/BOTTLE) Component Diesel Engine

Fluid

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

DIAGNOSIS

A Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. 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 and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

🛑 Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. There is a high concentration of glycol present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

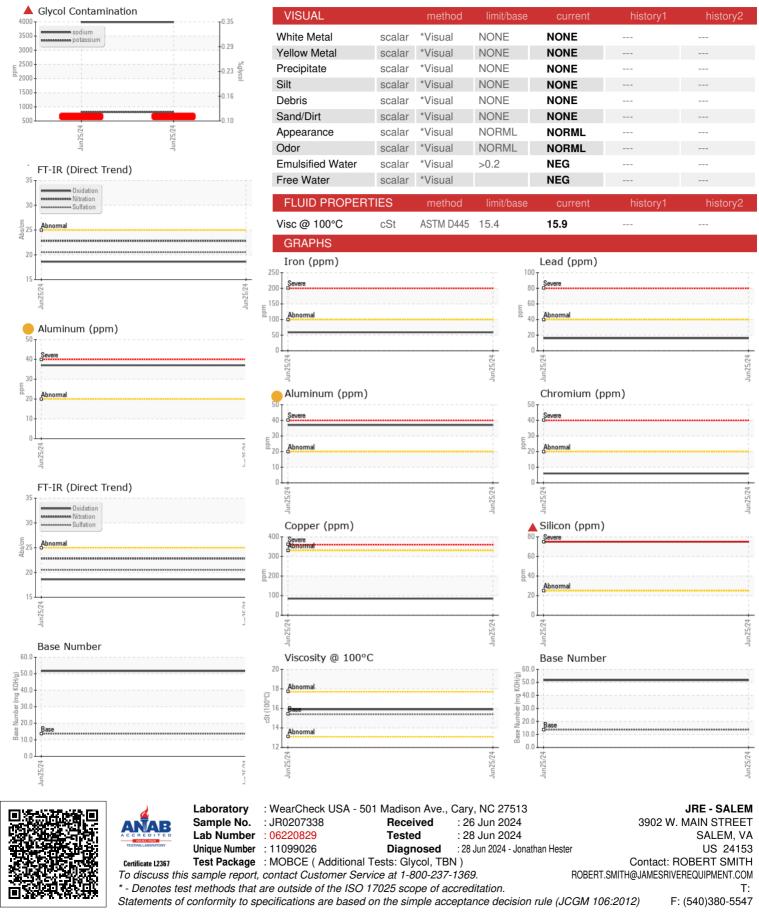
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0207338		
Sample Date		Client Info		25 Jun 2024		
Machine Age	hrs	Client Info		8543		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	59		
Chromium	ppm	ASTM D5185m	>20	6		
Nickel	ppm	ASTM D5185m	>4	2		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	3 7		
Lead	ppm	ASTM D5185m	>40	16		
Copper	ppm	ASTM D5185m	>330	85		
Tin	ppm	ASTM D5185m	>15	8		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		290		
Barium	ppm	ASTM D5185m		4		
Molybdenum	ppm	ASTM D5185m		1003		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m		762		
Calcium	ppm	ASTM D5185m		1060		
Phosphorus	ppm	ASTM D5185m		975		
Zinc	ppm	ASTM D5185m				
	ppm	ASTIVI DOTODITI		1065		
	ppm	ASTM D5185m		1065 3257		
	ppm		limit/base			
Sulfur CONTAMINANTS	ppm	ASTM D5185m	limit/base	3257		
Sulfur CONTAMINANTS Silicon	ppm	ASTM D5185m method	_	3257 current	 history1	 history2
Sulfur	ppm ppm	ASTM D5185m method ASTM D5185m	>25	3257 current 75	 history1 	 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	>25	3257 current ▲ 75 ▲ 3989	 history1 	 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>25	3257 current ▲ 75 ▲ 3989 ▲ 812	 history1 	 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982	>25 >20 limit/base	3257 current ▲ 75 ▲ 3989 ▲ 812 ▲ 0.12	 history1 	 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol	ppm ppm ppm %	ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D2982 method	>25 >20 limit/base >3	3257 current ▲ 75 ▲ 3989 ▲ 812 ▲ 0.12 current	history1 history1	 history2 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm ppm ppm %	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844	>25 >20 limit/base >3 >20	3257 current ▲ 75 ▲ 3989 ▲ 812 ▲ 0.12 current 0.3	 history1 history1 	 history2 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844 *ASTM D7824	>25 >20 limit/base >3 >20	3257 current ▲ 75 ▲ 3989 ▲ 812 ▲ 0.12 Current 0.3 22.8	 history1 history1 	 history2 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >3 >20 >30	3257 current ▲ 75 ▲ 3989 ▲ 812 ▲ 0.12 current 0.3 22.8 20.5	 history1 history1 	 history2 history2



OIL ANALYSIS REPORT



Contact/Location: ROBERT SMITH - JAMSALJR