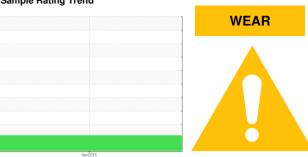


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

JOHN DEERE 203

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W4

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

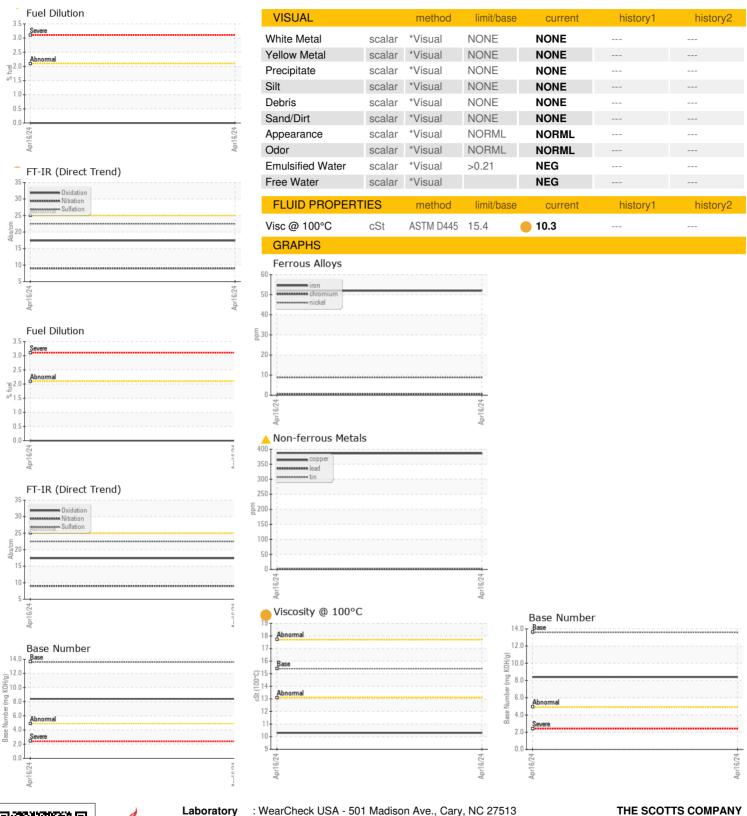
Fluid Condition

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

				Apr2024		
0 (GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0189713		
Sample Date		Client Info		16 Apr 2024		
Machine Age	hrs	Client Info		503		
Dil Age	hrs	Client Info		503		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Vater		WC Method	>0.21	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
on	ppm	ASTM D5185m	>51	52		
Chromium	ppm	ASTM D5185m	>11	<1		
lickel	ppm	ASTM D5185m	>5	9		
itanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>31	6		
.ead	ppm	ASTM D5185m	>26	<1		
Copper	ppm	ASTM D5185m	>26	<u> </u>		
in	ppm	ASTM D5185m	>4	3		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		204		
Barium	ppm	ASTM D5185m		4		
Nolybdenum	ppm	4.0TM D = 4.0=				
		ASTM D5185m		280		
Manganese	ppm	ASTM D5185m ASTM D5185m		280 3		
-						
Magnesium	ppm	ASTM D5185m		3		
Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		3 876		
Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		3 876 1552		
Magnesium Calcium Phosphorus Cinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		3 876 1552 924		
Magnesium Calcium Phosphorus Cinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 876 1552 924 1130		
Magnesium Calcium Phosphorus Linc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >22	3 876 1552 924 1130 3149		
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		3 876 1552 924 1130 3149		
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Godium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	>22	3 876 1552 924 1130 3149 current	 history1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>22 >31	3 876 1552 924 1130 3149 current 10 7	 history1	 history2
Magnesium Phosphorus Linc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>22 >31 >20	3 876 1552 924 1130 3149 current 10 7	 history1	 history2
Magnesium Calcium Chosphorus Cinc Gulfur CONTAMINANTS Silicon Godium Cotassium Euel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>22 >31 >20 >2.1	3 876 1552 924 1130 3149 current 10 7 7	history1	history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Euel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D3524	>22 >31 >20 >2.1 limit/base	3 876 1552 924 1130 3149 current 10 7 7 0.0	history1 history1	history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Mitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D3524 method *ASTM D7844	>22 >31 >20 >2.1 limit/base >3	3 876 1552 924 1130 3149 current 10 7 7 0.0 current	history1 history1 history1	history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Mitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7844	>22 >31 >20 >2.1 limit/base >3 >20	3 876 1552 924 1130 3149 current 10 7 7 0.0 current 0.3 9.0	history1 history1	history2 history2
Silicon Sodium Potassium Fuel INFRA-RED Soot % Sitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7614	>22 >31 >20 >2.1 limit/base >3 >20 >30	3 876 1552 924 1130 3149 current 10 7 7 0.0 current 0.3 9.0 22.5	history1 history1	history2 history2



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: JR0189713 Lab Number : 06158856 Unique Number : 10994279

Received : 24 Apr 2024 **Tested** : 26 Apr 2024 Diagnosed

: 26 Apr 2024 - Sean Felton

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

F: (434)848-2250 Contact/Location: REX WATSON - SCOLAW

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US 23868

3175 BRIGHT LEAF RD

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