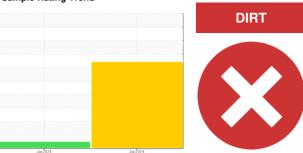


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# JOHN DEERE S680 1H0S680SHD0755720

**Diesel Engine** 

SCHAEFFER 700 Synshield 15w40 (12 GAI

## DIAGNOSIS

### Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend an early resample to monitor this condition.

Cylinder, crank, or cam shaft wear is indicated.

### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

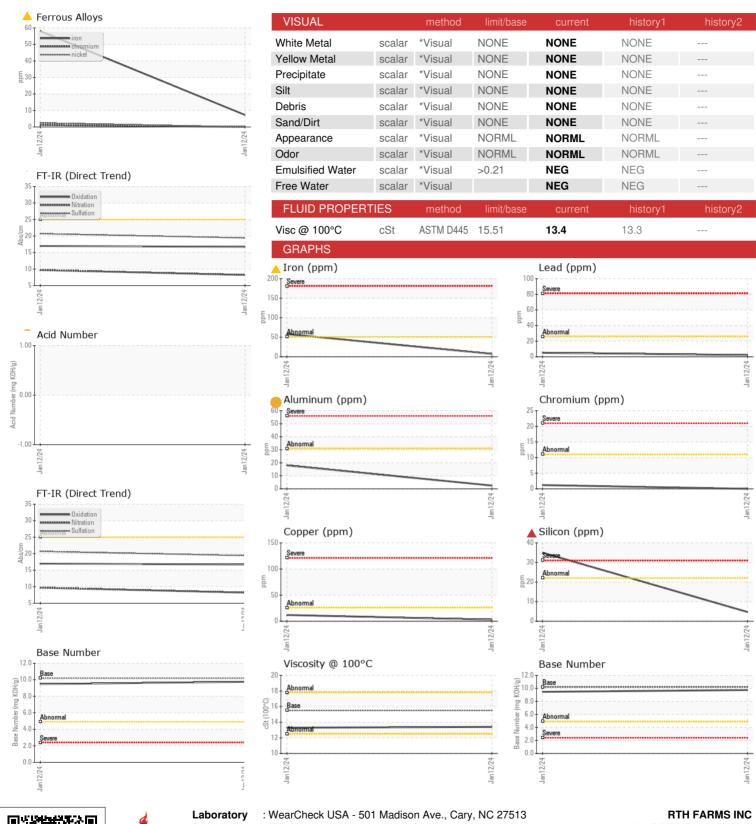
### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil.

)			Jan2024	Jan 2024			
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		TR06218434	TR06079283		
Sample Date		Client Info		12 Jan 2024	12 Jan 2024		
Machine Age	hrs	Client Info		3165	3165		
Oil Age	hrs	Client Info		100	100		
Oil Changed		Client Info		Not Changd	Not Changd		
Sample Status				SEVERE	NORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2	
uel		WC Method	>2.1	<1.0	<1.0		
Vater		WC Method	>0.21	NEG	NEG		
Glycol		WC Method		NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185m	>51	<b>△</b> 58	7		
Chromium	ppm	ASTM D5185m	>11	1	0		
Nickel	ppm	ASTM D5185m	>5	2	0		
itanium	ppm	ASTM D5185m		<1	0		
Silver	ppm	ASTM D5185m	>3	0	0		
luminum	ppm	ASTM D5185m	>31	<u> </u>	2		
.ead	ppm	ASTM D5185m	>26	5	2		
Copper	ppm	ASTM D5185m	>26	12	3		
in	ppm	ASTM D5185m	>4	3	1		
/anadium	ppm	ASTM D5185m		<1	0		
Cadmium	ppm	ASTM D5185m		<1	0		
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		87	97		
Barium	ppm	ASTM D5185m		0	0		
Nolybdenum	ppm	ASTM D5185m		23	129		
Manganese	ppm	ASTM D5185m		2	<1		
/lagnesium	ppm	ASTM D5185m		667	273		
Calcium	ppm	ASTM D5185m		1630	1744		
Phosphorus	ppm	ASTM D5185m		818	1011		
Zinc	ppm	ASTM D5185m		945	1189		
Bulfur	ppm	ASTM D5185m		3488	4164		
CONTAMINANTS	;	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>22	<b>▲</b> 35	5		
Sodium			>31	3	2		
	ppm	ASTM D5185m ASTM D5185m	>31	3 6	2		
	ppm	ASTM D5185m					
Potassium INFRA-RED	ppm	ASTM D5185m ASTM D5185m	>20	6	2		
Potassium  INFRA-RED  Soot %	ppm	ASTM D5185m ASTM D5185m method *ASTM D7844	>20 limit/base	6 current 0.2	2 history1 0.3	history2	
Potassium INFRA-RED Soot % Nitration	ppm ppm	ASTM D5185m ASTM D5185m method	>20 limit/base >3	6 current	2 history1	history2	
Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>20 limit/base >3 >20	6 current 0.2 8.2	2 history1 0.3 9.7	history2	
Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >3 >20 >30	6 current 0.2 8.2 19.4	2 history1 0.3 9.7 20.7	history2	



## **OIL ANALYSIS REPORT**





Sample No.

: TR06218434 Lab Number : 06218434 Unique Number : 11096631

Received : 24 Jun 2024 **Tested** : 25 Jun 2024 Diagnosed

: 25 Jun 2024 - Sean Felton

40211 S PRAIRIE VIEW RD ROSALIA, WA US 99170

Contact: RON GROGAN

Test Package : MOB 2 ( Additional Tests: PQ, TAN Man ) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-827-0711.

\* - 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)

Report Id: RTHROS [WUSCAR] 06218434 (Generated: 07/12/2024 12:56:43) Rev: 1

Contact/Location: RON GROGAN - RTHROS

T:

F: