

OIL ANALYSIS REPORT

Machine Id **JOHN DEERE 43567** Component Diesel Engine TRC MOLY XL PRO-SPEC IV XP 10W30 (7 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been no corrective action is recommended at this time. Resample service interval to monitor.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
oted. No le at the next	Sample Number		Client Info		TR060867	35	
	Sample Date		Client Info		09 Feb 20	24	
	Machine Age	hrs	Client Info		1037		
	Oil Age	hrs	Client Info		500		
	Filter Age	hrs	Client Info		500		
	Oil Changed		Client Info		Change	d	
	Filter Changed		Client Info		Change	d	
	Sample Status				ABNORMA		
	· · · · · · · · · · · · · · · · · · ·						
haft wear is to leaching of ne oil additives. reaking in.	Iron	ppm	ASTM D5185m	>51	🔺 112		
	Chromium	ppm	ASTM D5185m	>11	2		
	Nickel	ppm	ASTM D5185m	>5	12		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>31	6		
	Lead	ppm	ASTM D5185m	>26	3		
	Copper	ppm	ASTM D5185m	>26	🔺 145		
	Tin	ppm	ASTM D5185m	>4	4		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Silicon	ppm	ASTM D5185m	>22	8		
	Potassium	ppm	ASTM D5185m	>20	1		
	Fuel		WC Method	>2.1	<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol	%	*ASTM D2982		NEG		
	Soot %	%	*ASTM D7844	>3	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	9.3		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORM	IL	
	Odor	scalar	*Visual	NORML	NORM	IL	
	Emulsified Water	scalar	*Visual	>0.21	NEG		
	Sodium	ppm	ASTM D5185m	>31	2		
emaining in the	Boron	ppm	ASTM D5185m		4		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		160		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		80		
	Calcium	ppm	ASTM D5185m		4268		
	Phosphorus	ppm	ASTM D5185m		847		
	Zinc	ppm	ASTM D5185m		1119		
	Sulfur	ppm	ASTM D5185m		4103		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	11.6		

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445

Visc @ 100°C cSt

WEAR

The copper level is abnormal. Cylinder, crank, or cam sh indicated. Elemental level of copper (Cu) probably due to copper from copper components (i.e. cooling core) by the All other metal levels are typical for a new component br

CONTAMINATION

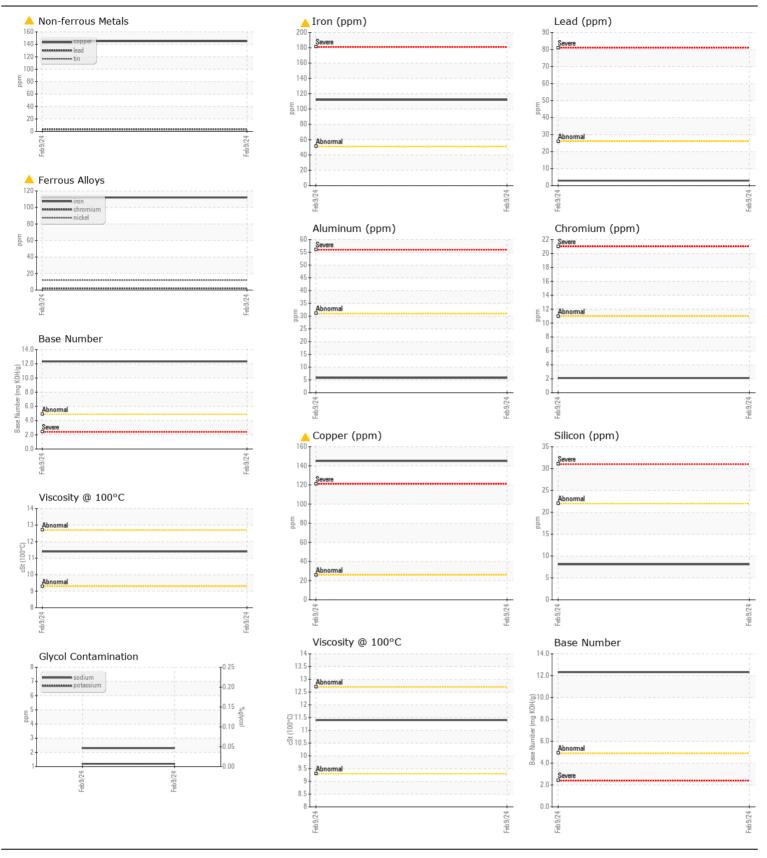
There is no indication of any contamination in the oil.

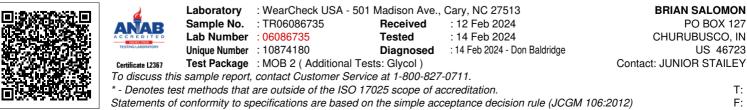
FLUID CONDITION

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

12.32

11.4





Contact/Location: JUNIOR STAILEY - BRICHU