WEAR CONTAMINATION FLUID CONDITION

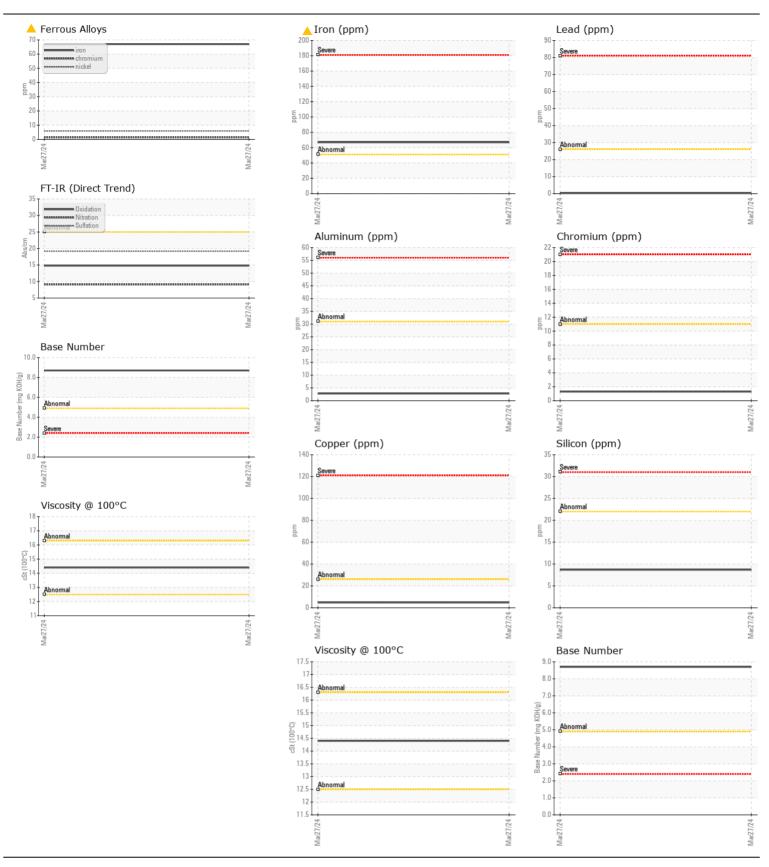
ABNORMAL NORMAL NORMAL

Machine Id

## **JOHN DEERE JOHN DEERE 6170M**

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		DC0033567		
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		27 Mar 2024		
	Machine Age	hrs	Client Info		2544		
	Oil Age	hrs	Client Info		446		
	Filter Age	hrs	Client Info		446		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
VE A D	lunu		ACTM DE10E		A 67		
WEAR	Iron	ppm	ASTM D5185m		<u>▲</u> 67		
Cylinder, crank, or cam shaft wear is indicated. Valve wear is indicated.	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m	>5	<u>^</u> 6		
	Titanium	ppm	ASTM D5185m	. 0	<1		
	Silver	ppm	ASTM D5185m ASTM D5185m		0 3		
	Lead	ppm	ASTM D5185m		ა <1		
	Copper	ppm	ASTM D5185m		5		
	Tin	ppm	ASTM D5185m		1		
	Vanadium	ppm	ASTM D5185m	77	- <1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	·····		v 100a				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	9		
	Potassium	ppm	ASTM D5185m	>20	3		
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.6		
	Nitration	Abs/cm	*ASTM D7624	>20	9.1		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m	<b>\31</b>	<1		
LOID CONDITION	Boron	ppm	ASTM D5185m	- 0 1	1		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m		62		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		892		
	Calcium	ppm	ASTM D5185m		1292		
	Phosphorus	ppm	ASTM D5185m		1138		
	Zinc	ppm	ASTM D5185m		1264		
	Sulfur	ppm	ASTM D5185m		3515		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8		
	Base Number (BN)				8.7		
	Visc @ 100°C	cSt	ASTM D445		14.4		





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DC0033567 Lab Number : 06176566

Unique Number : 11022619

Received **Tested** Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

: 10 May 2024 : 13 May 2024

: 14 May 2024 - Sean Felton

12275 MT PLEASANT RD MERCERSBURG, PA US 17236 Contact: RYAN LEASURE

**MERCER VU FARMS** 

ryanleasure@yahoo.com T: (717)404-5913

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