WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL ATTENTION

Area

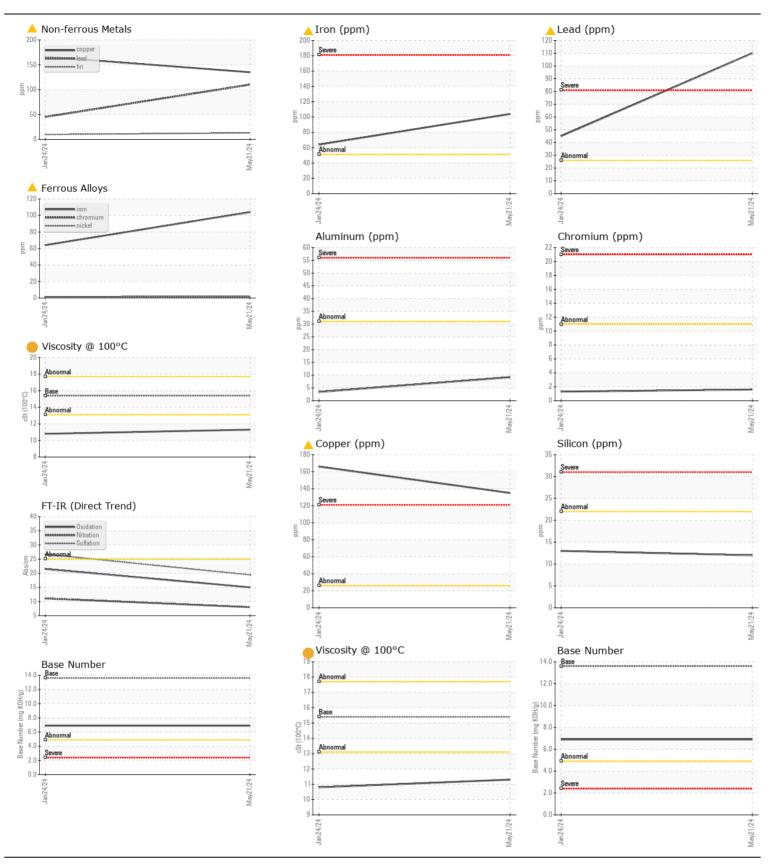
[W8924]

JOHN DEERE 904P 1DW904PAHPLX06066

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (42 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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. (Customer Sample Comment: W8924)	Sample Number		Client Info		JR0196853	JR0202642	
	Sample Date		Client Info		21 May 2024	24 Jan 2024	
	Machine Age	hrs	Client Info		1465	928	
	Oil Age	hrs	Client Info		537	928	
	Filter Age	hrs	Client Info		537	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	<u> </u>	64	
	Chromium	ppm	ASTM D5185m	>11	2	1	
Cylinder, crank, or cam shaft wear is indicated. Bearing and/or bushing wear is indicated.	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m		9	3	
	Lead	ppm	ASTM D5185m		<u> 110</u>	45	
	Copper	ppm	ASTM D5185m		135	<u> </u>	
	Tin	ppm	ASTM D5185m		<u> 13</u>	10	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		12	13	
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	5	7	
	Fuel	%	ASTM D3524	>2.1	<1.0	0.7	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol	%	*ASTM D2982		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.9	
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	11.1	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	26.7	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	nnm	ASTM D5185m	_31	14	5	
LOID CONDITION	Boron	ppm	ASTM D5185m	701	26	41	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm			226		
	•	ppm	ASTM D5185m ASTM D5185m			245 12	
	Manganese	ppm			13 772		
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		773 1691	749 1488	
		ppm	ASTM D5185m			812	
	Phosphorus	ppm			918		
	Zinc	ppm	ASTM D5185m		1166 3373	1101 2880	
	Culture				44/4	288U	
	Sulfur	ppm	ASTM D5185m	0.5			
	Sulfur Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896		15.0 6.9	21.5 6.9	





Report Id: LUCMAN [WUSCAR] 06188969 (Generated: 05/28/2024 16:08:27) Rev: 1

Laboratory Unique Number : 11045721

Sample No. Lab Number : 06188969

: JR0196853

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024 **Tested** : 28 May 2024

: 28 May 2024 - Don Baldridge Diagnosed

PO BOX 128 MANAKIN SABOT, VA

US 23103 Contact: SERVICE MANAGER

LUCK STONE - MANAKIN SABOT

Test Package : MOBCE (Additional Tests: FuelDilution, Glycol, TBN) Certificate L2367 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)

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