WEAR CONTAMINATION FLUID CONDITION

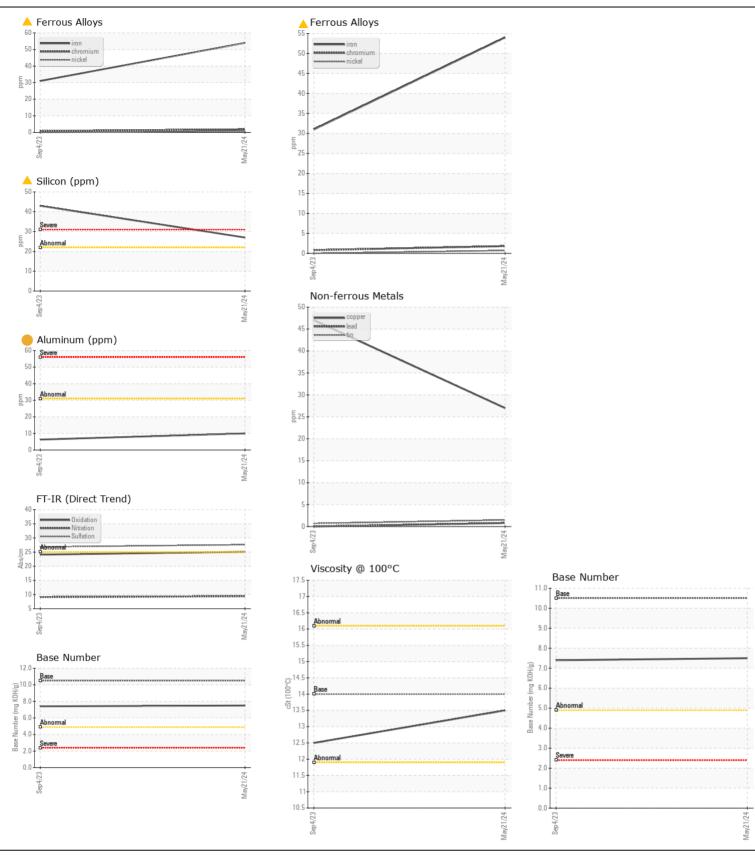
ABNORMAL ABNORMAL NORMAL

Machine Id

JOHN DEERE 1T0325GKENJ421724

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0214444	,	
	Sample Date		Client Info		21 May 2024	04 Sep 2023	
	Machine Age	hrs	Client Info		1008	468	
	Oil Age	hrs	Client Info		540	0	
	Filter Age	hrs	Client Info		540	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	NORMAL	
/EAR	Iron	ppm	ASTM D5185m	>51	<u>^</u> 54	31	
	Chromium	ppm	ASTM D5185m	>11	2	<1	
Cylinder, crank, or cam shaft wear is indicated.	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	1	<1	
	Aluminum	ppm	ASTM D5185m		<u> </u>	6	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m		27	47	
	Tin	ppm	ASTM D5185m		2	<1	
	Vanadium	ppm	ASTM D5185m		- <1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Silicon	ppm	ASTM D5185m	>22	<u>^</u> 27	43	
	Potassium	ppm	ASTM D5185m		3	2	
	Fuel	le le · · ·	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.8	0.6	
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.1	
	Sulfation	Abs/.1mm	*ASTM D7415		27.6	26.8	
	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		*Visual	>0.21	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	12	
	Boron	ppm	ASTM D5185m		208	215	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		<1	2	
	Molybdenum	ppm	ASTM D5185m		293	261	
	Manganese	ppm	ASTM D5185m		1	1	
	Magnesium	ppm	ASTM D5185m		899	803	
	Calcium	ppm	ASTM D5185m		1637	1742	
	Phosphorus	ppm	ASTM D5185m		909	845	
	Zinc	ppm	ASTM D5185m		1195	1119	
	Sulfur	ppm	ASTM D5185m		3192	3517	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	25.1	24.1	
	Base Number (BN)				7.5	7.4	
		0 9			_		







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0214444 Lab Number : 06189958 Unique Number : 11046710

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Received **Tested** Diagnosed

: 23 May 2024 : 25 May 2024

: 29 May 2024 - Sean Felton

11128 INDUSTRIAL RD MANASSAS, VA US 20109 Contact: DAVE PARKER

ALLSITE CONTRACTING

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Test Package : CONST (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)