WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL

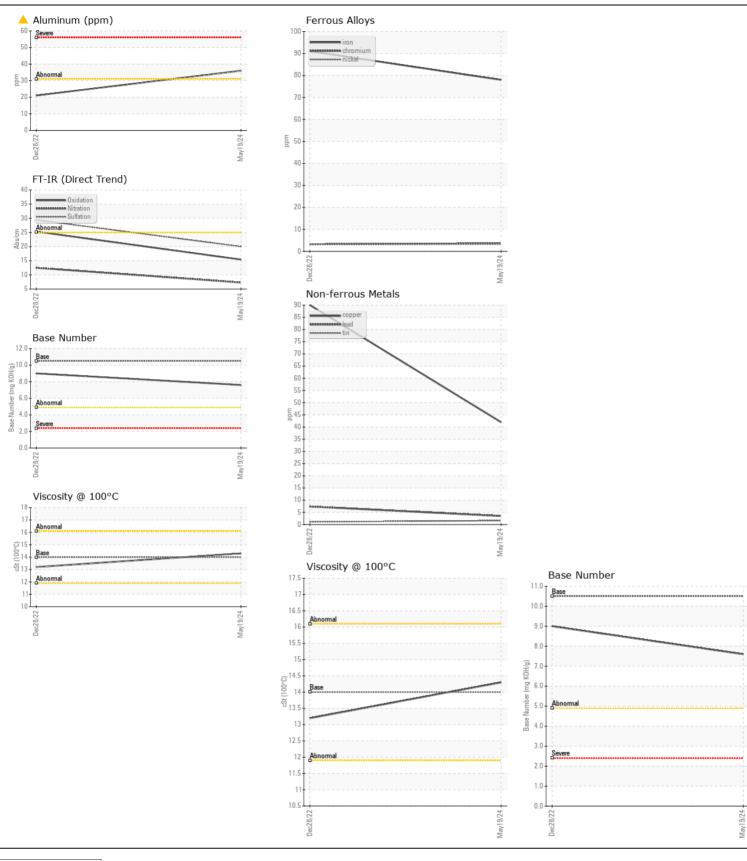
Machine Id

JOHN DEERE 317G 1T0317GJTMJ395570

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 0W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UOIVI	Client Info	LIIIII/ADII	JR0212713	JR0156710	
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		19 May 2024	28 Dec 2022	
	Machine Age	hrs	Client Info		1448	840	
	Oil Age	hrs	Client Info		608	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	luon		ACTM DE10Em	. 51	70	01	
WEAR	Iron Chromium	ppm	ASTM D5185m ASTM D5185m		78 4	91 3	
The aluminum level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		3	3	
	Titanium	ppm	ASTM D5185m	>0	ა <1	0	
	Silver		ASTM D5185m	~3	1	<1	
	Aluminum	ppm	ASTM D5185m		<u> </u>	21	
	Lead	ppm	ASTM D5185m		4	7	
	Copper	ppm	ASTM D5185m		4 42	<i>7</i> △ 90	
	Tin	ppm	ASTM D5185m		2	1	
	Vanadium	ppm	ASTM D5185m		<u>-</u> <1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	21	26	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	1	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.2	1.3	
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	12.5	
	Sulfation	Abs/.1mm	*ASTM D7415		20.0	29.4	
	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	
<u></u>	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5	9	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		90	120	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		265	249	
	Manganese	ppm	ASTM D5185m		2	2	
	Magnesium	ppm	ASTM D5185m		851	775	
	Calcium	ppm	ASTM D5185m		1671	1793	
	Phosphorus	ppm	ASTM D5185m		1023	957	
	Zinc	ppm	ASTM D5185m		1166	1247	
	Sulfur	ppm	ASTM D5185m		3656	3750	
	Oxidation	Abs/.1mm	*ASTM D7414		15.4	25.3	
			ACTEM DOOOC	10 E	7.6	0.0	
	Base Number (BN) Visc @ 100°C	cSt	ASTM D2896 ASTM D445		14.3	9.0 13.2	







Certificate L2367

Laboratory Sample No. Unique Number : 11042709

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06185957

: JR0212713

Received **Tested** Diagnosed

: 21 May 2024 : 22 May 2024 : 23 May 2024 - Jonathan Hester

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC

US 27529 Contact: RALEIGH SHOP

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

sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com T: (919)614-2260

* - 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)

F: (919)779-5432 Submitted By: Steven Bass