WEAR CONTAMINATION FLUID CONDITION

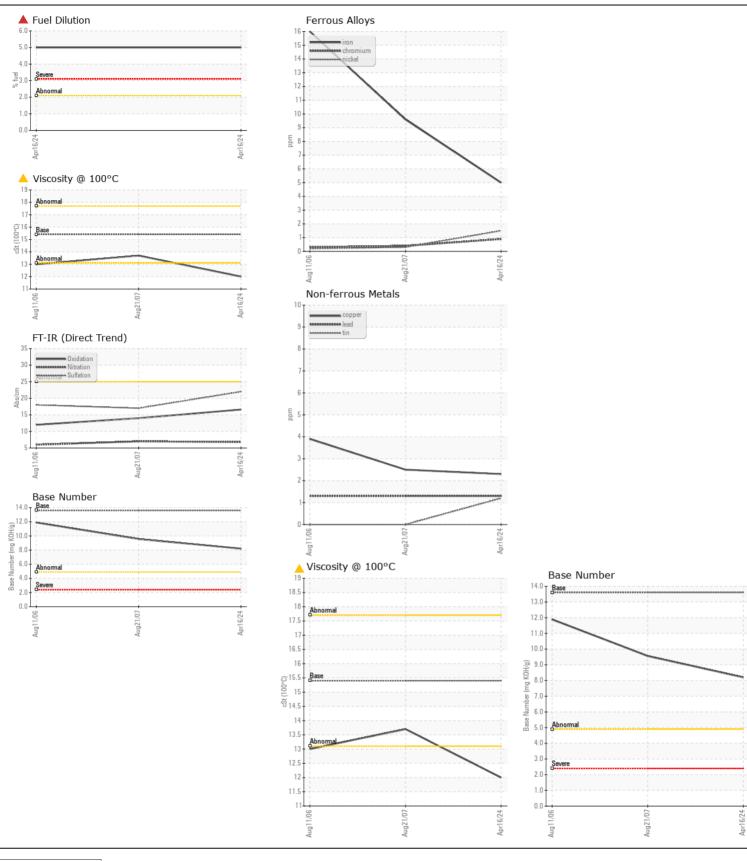
NORMAL SEVERE ABNORMAL

Machine Id

JOHN DEERE 317 T00317A103429

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0206636	JRMC005490	JRMC002978
	Sample Date		Client Info		16 Apr 2024	21 Aug 2007	11 Aug 2006
	Machine Age	hrs	Client Info		2714	550	185
	Oil Age	hrs	Client Info		2714	550	85
	Filter Age	hrs	Client Info		0	0	85
	Oil Changed		Client Info		Changed	N/A	N/A
	Filter Changed		Client Info		Changed	N/A	N/A
	Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	5	10	16
WEAR	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		2	<1	<1
	Titanium	ppm	ASTM D5185m	70	<1	<1	0
	Silver	ppm	ASTM D5185m	\3	<1	0	0
	Aluminum	ppm	ASTM D5185m		3	5	5
	Lead	ppm	ASTM D5185m		1	1	1
	Copper	ppm	ASTM D5185m		2	2	4
	Tin	ppm	ASTM D5185m		1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 22	10	<u></u> 61	<u>^</u> 105
	Potassium	ppm	ASTM D5185m		3	8	4
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	ppm %	ASTM D3163111		5 .0	<1.0	<1.0
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~ 3	0.1	0	0
	Nitration	Abs/cm	*ASTM D7624		6.8	7.	6.
	Sulfation	Abs/.1mm	*ASTM D7415		22.0	17.	18.
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
ELUID CONDITION	Conditions.		ACTA DE10E	04			7
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	1	5	7
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		361	125	117
	Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0 98	4 91	94
	Manganese		ASTM D5185m			1	1
	Magnesium	ppm	ASTM D5185m		1 501	15	9
	Calcium	ppm ppm	ASTM D5185m		1530	3245	3467
	Phosphorus	ppm	ASTM D5185m		779	1220	1239
	Zinc	ppm	ASTM D5185m		861	1299	1404
	Sulfur		ASTM D5185m		2826	4368	4415
	Oxidation	ppm Abs/.1mm	*ASTM D7414	>25	16.6	14.	12.
	Base Number (BN)	mg KOH/g	ASTM D2896		8.2	9.56	11.89







Report Id: JAMCHA [WUSCAR] 06152891 (Generated: 04/22/2024 16:25:56) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0206636 Lab Number : 06152891

Unique Number: 10982969

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

Received **Tested** Diagnosed

: 18 Apr 2024 : 22 Apr 2024

: 22 Apr 2024 - Wes Davis Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC US 28269

Contact: CHARLOTTE SHOP myoung@jamesriverequipment.com T: (704)597-0211

* - 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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