WEAR CONTAMINATION FLUID CONDITION

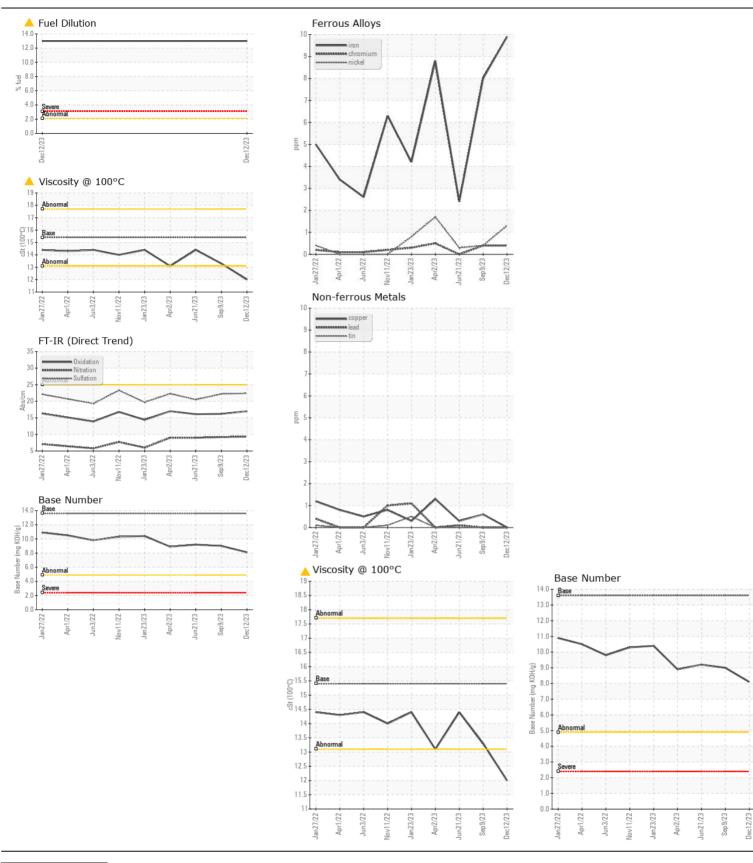
NORMAL ABNORMAL ABNORMAL

Machine Id

JOHN DEERE 748L 1DW748LBCKF702411

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0193991	JR0186661	JR0167342
	Sample Date		Client Info		12 Dec 2023	09 Sep 2023	21 Jun 202
	Machine Age	hrs	Client Info		8090	7082	7082
	Oil Age	hrs	Client Info		1008	7082	571
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	10	8	2
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	0
	Nickel	ppm	ASTM D5185m	>5	1	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		3	8	<1
	Lead	ppm	ASTM D5185m	>26	0	0	<1
	Copper	ppm	ASTM D5185m	>26	0	<1	<1
	Tin	ppm	ASTM D5185m	>4	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	6	6	8
OUTAMINATION	Potassium	ppm	ASTM D5185m		1	1	1
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524	>2.1	13.0	<1.0	<1.0
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	, 0.2.	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.5	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.2	9.0
	Sulfation	Abs/.1mm	*ASTM D7415		22.4	22.2	20.5
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	1	3	0
LOID CONDITION	Boron	ppm	ASTM D5185m	701	147	181	331
The oil viscosity is lower than normal. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		212	249	254
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		719	864	750
	Calcium	ppm	ASTM D5185m		1399	1458	1333
	Phosphorus	ppm	ASTM D5185m		872	904	863
	Zinc	ppm	ASTM D5185m		1067	1117	1014
	Sulfur	ppm	ASTM D5185m		2938	3646	3084
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	16.2	16.1
	Base Number (BN)				8.1	9.0	9.2
	Dase Mulliper (DIM)	IIIU NOII/U			0.1	0.0	







Certificate L2367

Report Id: RWMGAR [WUSCAR] 06034452 (Generated: 04/26/2024 08:49:23) Rev: 1

Laboratory Sample No. Unique Number : 10789681

Lab Number : 06034452

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0193991

Received

Tested Diagnosed

: 14 Dec 2023 : 19 Dec 2023

: 19 Dec 2023 - Angela Borella

4161 AUBURN CHURCH RD GARNER, NC US 27529

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) 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.

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

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

F: (919)779-5432 Submitted By: ?

JRE - GARNER