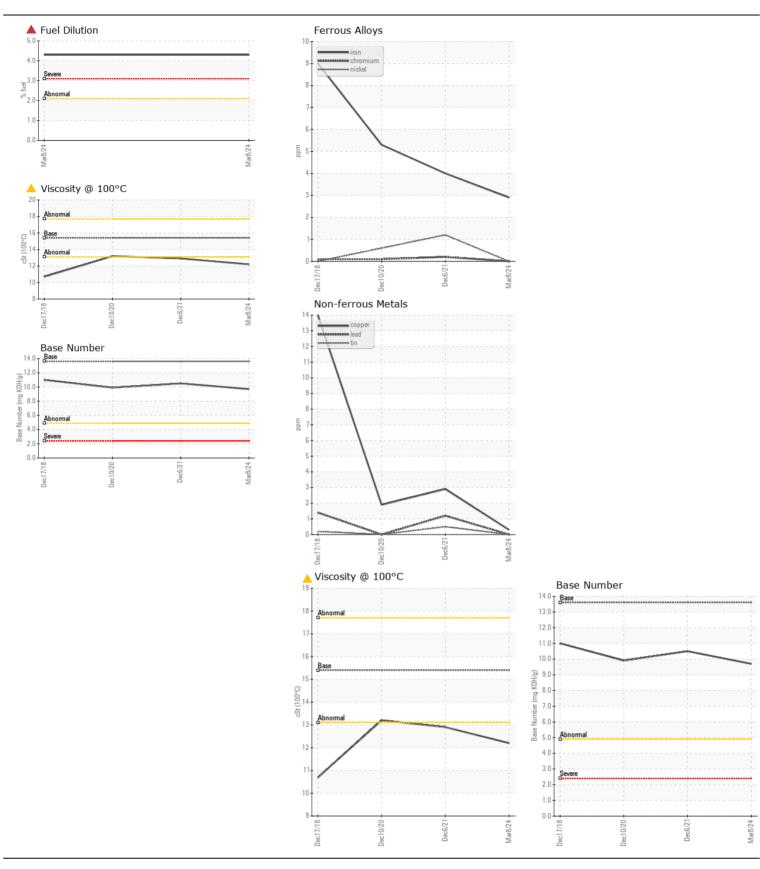
WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE ABNORMAL

JOHN DEERE 3025E 1LV3025EKHH108461

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0189834	JR0093451	JR0048458
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 Date		Client Info		08 Mar 2024	06 Dec 2021	10 Dec 202
	Machine Age	hrs	Client Info		259	151	112
	Oil Age	hrs	Client Info		0	0	112
	Filter Age	hrs	Client Info		0	0	112
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				SEVERE	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>51	3	4	5
	Chromium	ppm	ASTM D5185m		0	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	1	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm		>3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	5
	Lead	ppm	ASTM D5185m	>26	0	1	0
	Copper	ppm	ASTM D5185m	>26	<1	3	2
	Tin	ppm	ASTM D5185m	>4	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	17	7	10
	Potassium	ppm	ASTM D5185m		0	2	2
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	4.3	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.5	7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	19.7	20
	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	2	2
	Boron	ppm	ASTM D5185m		240	228	258
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.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		234	226	225
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		791	818	812
	Calcium	ppm	ASTM D5185m		1392	1396	1356
	Phosphorus	ppm	ASTM D5185m		881	869	828
	Zinc	ppm	ASTM D5185m		997	1067	955
	Sulfur	ppm	ASTM D5185m		3368	2794	2323
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	15	15
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.7	10.5	9.9
	Visc @ 100°C	cSt	ASTM D445	15 /	12.2	12.9	13.2







Laboratory Sample No.

Lab Number : 06122091

: JR0189834 Unique Number : 10936242

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Mar 2024 : 21 Mar 2024 **Tested**

Diagnosed

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

LA CROSSE, VA US 23950-1807 Contact: HUNTER GREEN hgreen@jamesriverequipment.com

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. T: (434)447-4325 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (434)447-1329

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