James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
JOHN DEERE 3025E 1LV3025EJMN153509
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

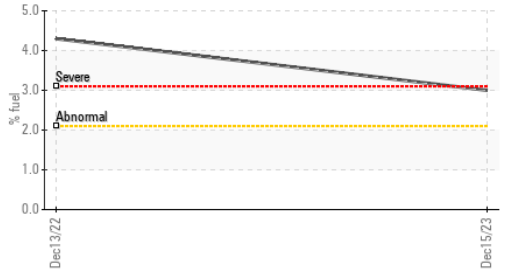
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

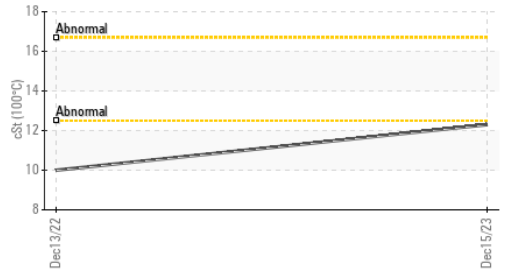
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0189705	JR0135422	---
Sample Date		Client Info		15 Dec 2023	13 Dec 2022	---
Machine Age	hrs	Client Info		76	41	---
Oil Age	hrs	Client Info		0	41	---
Filter Age	hrs	Client Info		0	41	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>51	3	9	---
Chromium	ppm	ASTM D5185m	>11	0	0	---
Nickel	ppm	ASTM D5185m	>5	<1	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	5	6	---
Lead	ppm	ASTM D5185m	>26	<1	2	---
Copper	ppm	ASTM D5185m	>26	4	14	---
Tin	ppm	ASTM D5185m	>4	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>22	12	▲ 45	---
Potassium	ppm	ASTM D5185m	>20	0	<1	---
Fuel	%	ASTM D3524	>2.1	▲ 3.0	▲ 4.3	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	6.4	7.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	19.8	---
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	scalar	*Visual	>0.21	NEG	NEG	---
Sodium	ppm	ASTM D5185m	>31	0	11	---
Boron	ppm	ASTM D5185m		248	242	---
Barium	ppm	ASTM D5185m		0	6	---
Molybdenum	ppm	ASTM D5185m		223	207	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m		781	619	---
Calcium	ppm	ASTM D5185m		1262	1791	---
Phosphorus	ppm	ASTM D5185m		863	886	---
Zinc	ppm	ASTM D5185m		1060	1026	---
Sulfur	ppm	ASTM D5185m		3013	4108	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	14.7	---
Base Number (BN)	mg KOH/g	ASTM D2896		10.4	11.9	---
Visc @ 100°C	cSt	ASTM D445		▲ 12.3	▲ 10.0	---

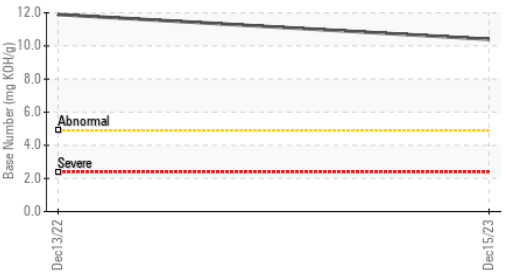
Fuel Dilution



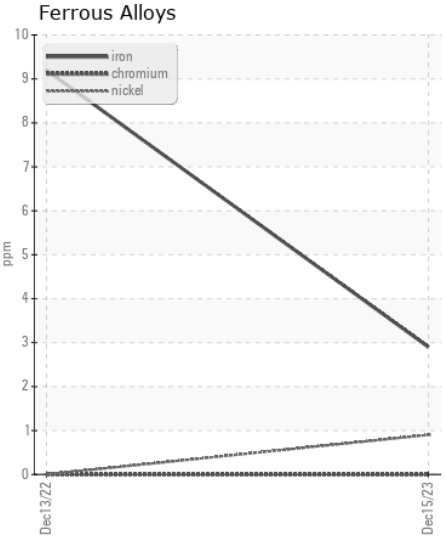
Viscosity @ 100°C



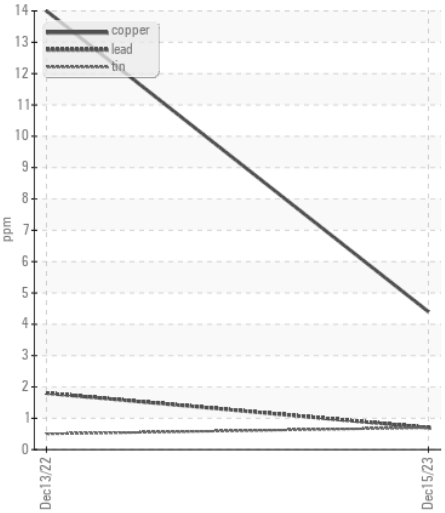
Base Number



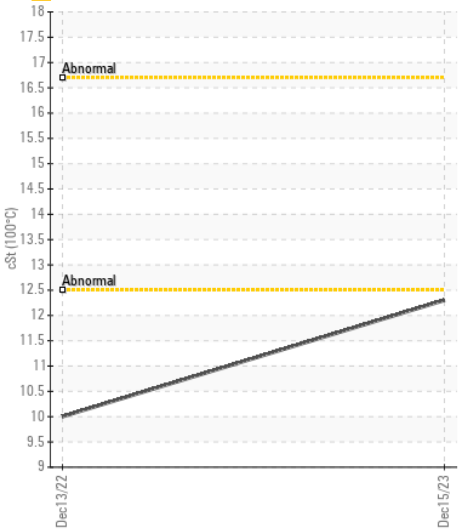
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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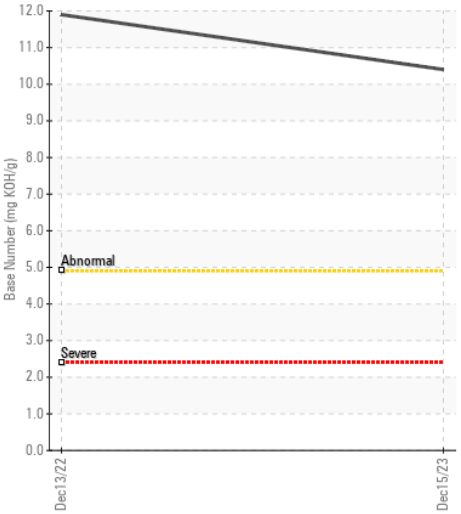

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0189705 **Recieved** : 11 Jan 2024
Lab Number : 06057924 **Diagnosed** : 15 Jan 2024
Unique Number : 10829306 **Diagnostician** : Wes Davis
Test Package : CONST (Additional Tests: 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.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

JRE - LA CROSSE
38431 HWY 58
LA CROSSE, VA
US 23950-1807
Contact: HUNTER GREEN
hgreen@jamesriverequipment.com
T: (434)447-4325
F: (434)447-1329