James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
JOHN DEERE 3025E 1LV3025ECGH100829
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

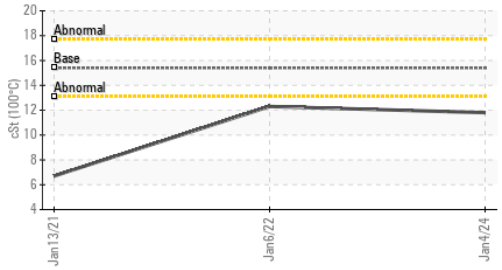
There is no indication of any contamination in the oil.

FLUID CONDITION

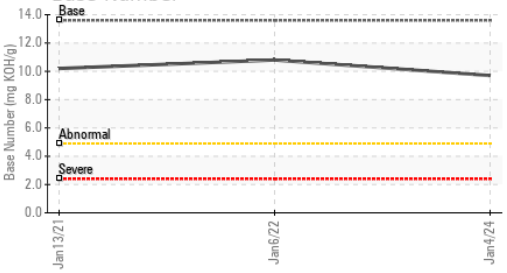
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0137372	JR0116340	JR0041553
Sample Date		Client Info		04 Jan 2024	06 Jan 2022	13 Jan 2021
Machine Age	hrs	Client Info		214	152	0
Oil Age	hrs	Client Info		32	0	0
Filter Age	hrs	Client Info		32	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>51	5	4	16
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	2	2	0
Lead	ppm	ASTM D5185m	>26	<1	<1	1
Copper	ppm	ASTM D5185m	>26	5	<1	14
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	10	8	9
Potassium	ppm	ASTM D5185m	>20	2	0	1
Fuel	%	ASTM D3524	>2.1	<1.0	<1.0	0.4
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	6.5	6.8	3.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	19.9	22
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	scalar	*Visual	>0.21	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>31	0	1	0
Boron	ppm	ASTM D5185m		270	272	▲ 6
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		220	237	▲ 4
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		754	757	▲ 116
Calcium	ppm	ASTM D5185m		1301	1289	▲ 3773
Phosphorus	ppm	ASTM D5185m		770	786	1066
Zinc	ppm	ASTM D5185m		980	935	▲ 1272
Sulfur	ppm	ASTM D5185m		3150	2690	3233
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	15	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.7	10.8	10.2
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 11.8	12.3	▲ 6.7

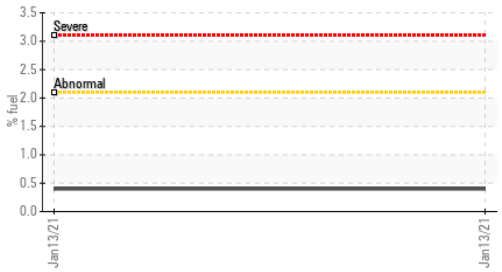
Viscosity @ 100°C



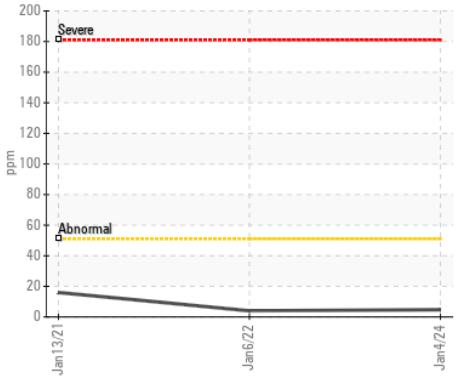
Base Number



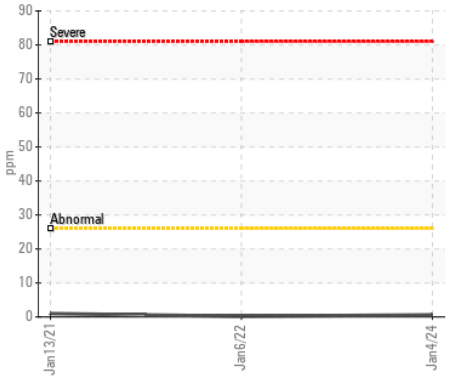
Fuel Dilution



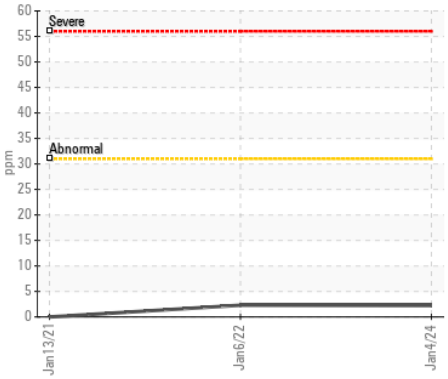
Iron (ppm)



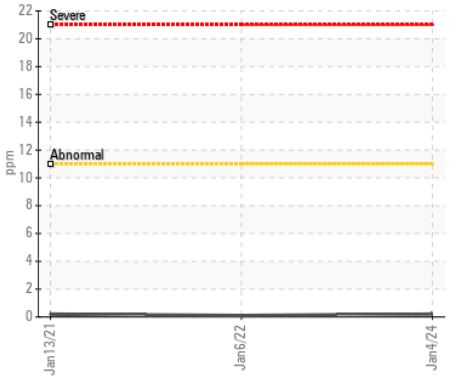
Lead (ppm)



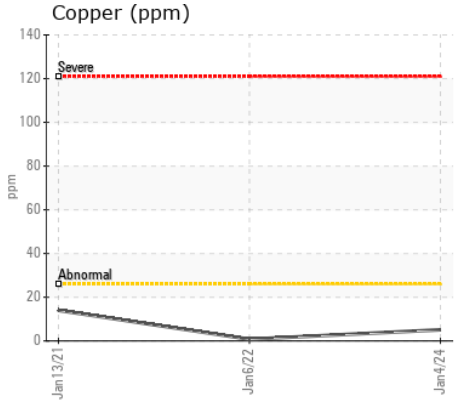
Aluminum (ppm)



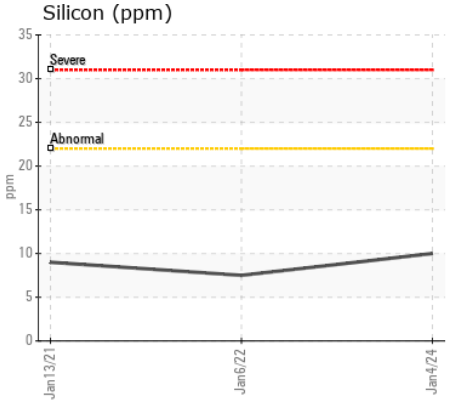
Chromium (ppm)



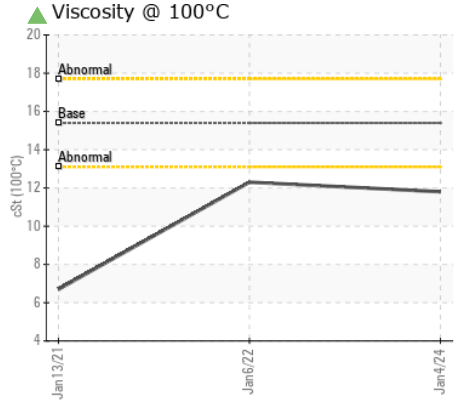
Copper (ppm)



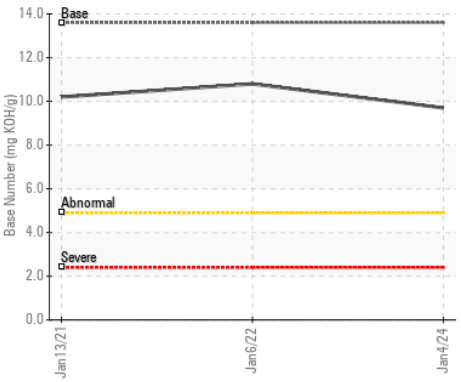
Silicon (ppm)



Viscosity @ 100°C



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0137372 **Recieved** : 09 Jan 2024
Lab Number : 06055188 **Diagnosed** : 10 Jan 2024
Unique Number : 10821137 **Diagnostician** : Jonathan Hester
Test Package : MOBCE (Additional Tests: FuelDilution, PercentFuel, TBN)

Certificate L2367

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 - WILKESBORO
288 WESTGATE DRIVE
WILKESBORO, NC
US 28697
Contact: BUTCH JANES
bjanes@jamesriverequipment.com
T: (336)973-8201
F: (336)973-8496