James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[HEATH SHIPLEY]
Machine Id
JOHN DEERE 2038R 1LV2038RJJJ103059
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

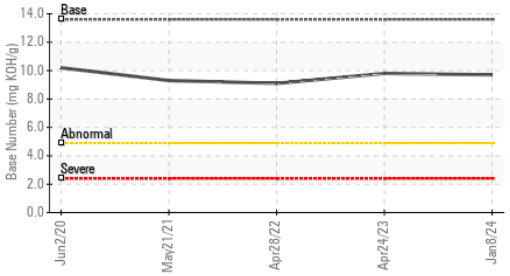
There is no indication of any contamination in the oil.

FLUID CONDITION

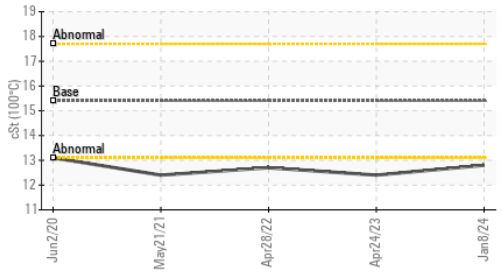
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0169329	JR0151998	JR0112143
Sample Date		Client Info		08 Jan 2024	24 Apr 2023	28 Apr 2022
Machine Age	hrs	Client Info		709	655	543
Oil Age	hrs	Client Info		54	112	111
Filter Age	hrs	Client Info		54	112	111
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	4	6	7
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	3	2	2
Lead	ppm	ASTM D5185m	>26	0	0	<1
Copper	ppm	ASTM D5185m	>26	3	5	8
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	17	8	8
Potassium	ppm	ASTM D5185m	>20	0	1	0
Fuel	%	ASTM D3524	>2.1	<1.0	▲ 4.7	▲ 6.9
Water		WC Method	>0.21	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	6.8	7.4	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	19.8	19.9
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	<1	1	2
Boron	ppm	ASTM D5185m		261	265	268
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		243	233	224
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		829	763	799
Calcium	ppm	ASTM D5185m		1453	1341	1312
Phosphorus	ppm	ASTM D5185m		872	837	822
Zinc	ppm	ASTM D5185m		1038	1039	952
Sulfur	ppm	ASTM D5185m		3009	3161	2485
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	15.5	15.9
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.7	9.8	9.1
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	▲ 12.4	▲ 12.7

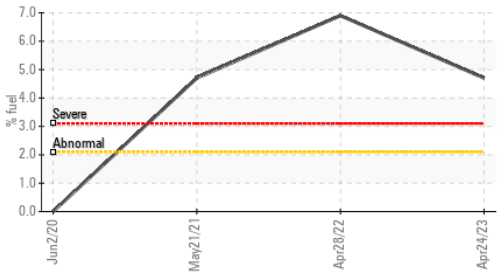
Base Number



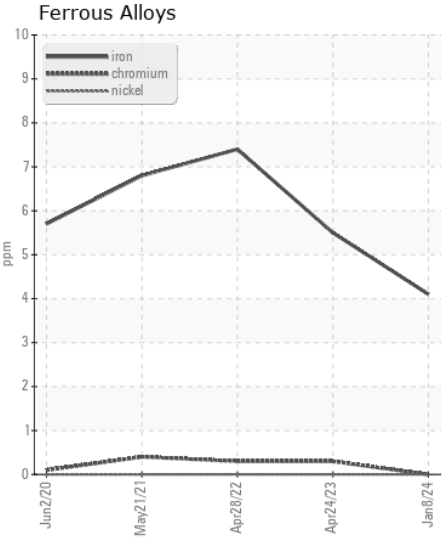
Viscosity @ 100°C



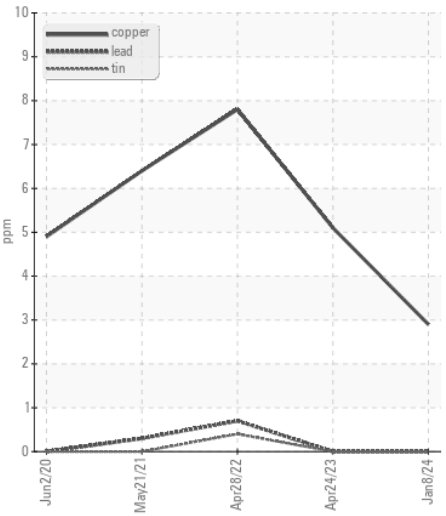
Fuel Dilution



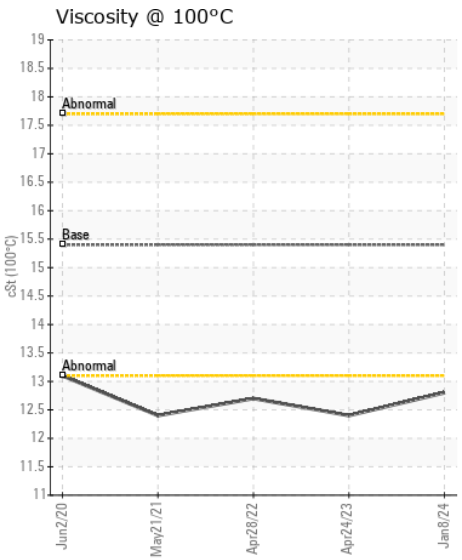
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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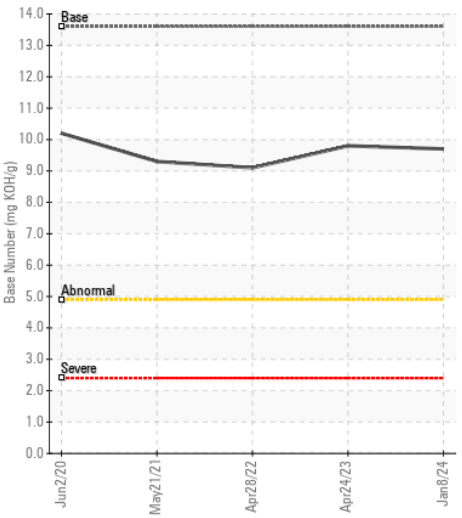

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: JR0169329	**Recieved**	: 12 Jan 2024
Lab Number	: 06060039	**Diagnosed**	: 16 Jan 2024
Unique Number	: 10831421	**Diagnostician**	: Jonathan Hester
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.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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