James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 330G 1T0330GKJLF373343
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

Cylinder, crank, or cam shaft wear is indicated.

CONTAMINATION

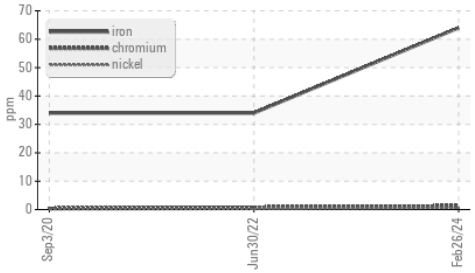
There is no indication of any contamination in the oil.

FLUID CONDITION

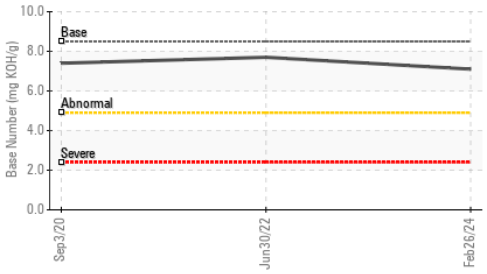
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0204801	JR0127820	JR0047170
Sample Date		Client Info		26 Feb 2024	30 Jun 2022	03 Sep 2020
Machine Age	hrs	Client Info		6651	4115	772
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	▲ 64	34	34
Chromium	ppm	ASTM D5185m	>11	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>31	3	7	7
Lead	ppm	ASTM D5185m	>26	0	<1	1
Copper	ppm	ASTM D5185m	>26	8	▲ 51	▲ 194
Tin	ppm	ASTM D5185m	>4	<1	1	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	20	▲ 28	▲ 45
Potassium	ppm	ASTM D5185m	>20	3	0	1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.9	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	14.5	10.9	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.7	26.2	29.4
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	>216	3	4	14
Boron	ppm	ASTM D5185m	250	8	89	76
Barium	ppm	ASTM D5185m	10	<1	0	1
Molybdenum	ppm	ASTM D5185m	100	79	259	207
Manganese	ppm	ASTM D5185m		1	1	2
Magnesium	ppm	ASTM D5185m	450	904	839	754
Calcium	ppm	ASTM D5185m	3000	1427	1622	1750
Phosphorus	ppm	ASTM D5185m	1150	1185	857	823
Zinc	ppm	ASTM D5185m	1350	1439	1131	969
Sulfur	ppm	ASTM D5185m	4250	3112	3075	2938
Oxidation	Abs/.1mm	*ASTM D7414	>25	29.7	24.0	28.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.1	7.7	7.4
Visc @ 100°C	cSt	ASTM D445	14.4	16.3	14.0	12.7

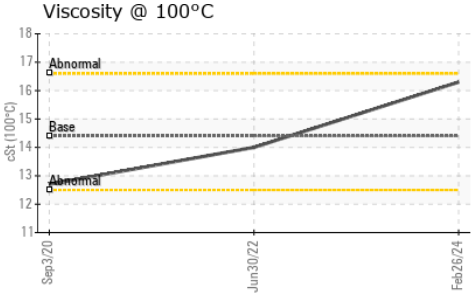
Ferrous Alloys



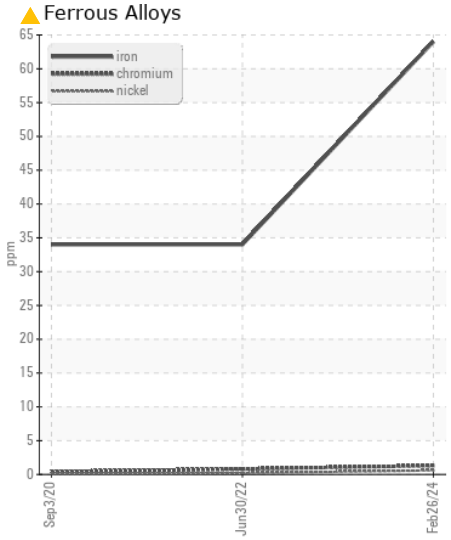
Base Number



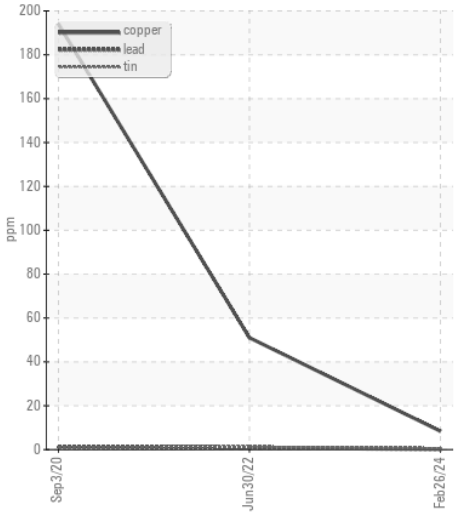
Viscosity @ 100°C



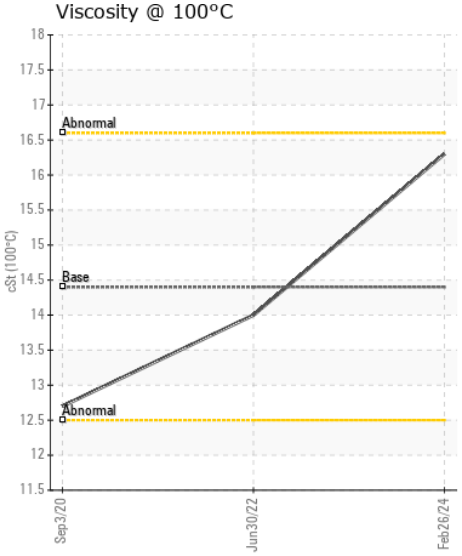
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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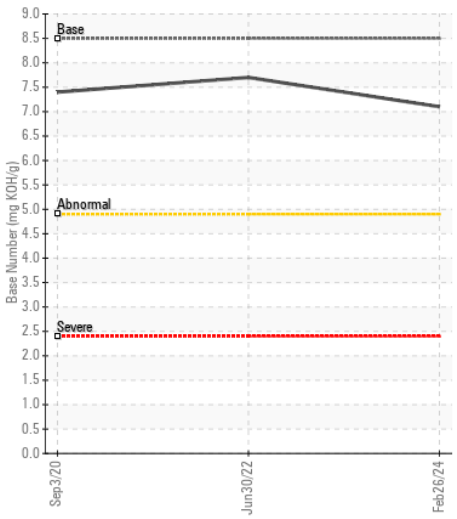

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0204801 **Received** : 27 Feb 2024
Lab Number : 06102288 **Tested** : 28 Feb 2024
Unique Number : 10900518 **Diagnosed** : 29 Feb 2024 - Sean Felton
Test Package : CONST (Additional Tests: 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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