James River Equipment

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 624L 1DW624LZPKF701746
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Valve wear is indicated.

CONTAMINATION

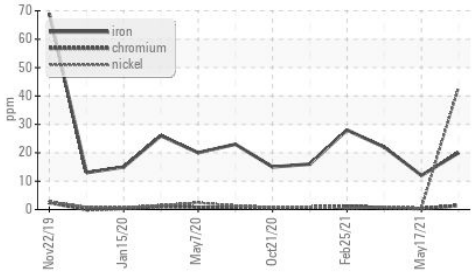
There is no indication of any contamination in the oil.

FLUID CONDITION

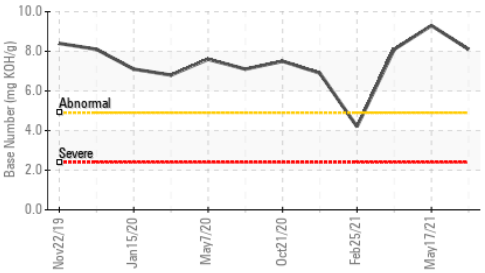
The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0194252	JR0090103	JR0077858
Sample Date		Client Info		14 Dec 2023	17 May 2021	22 Apr 2021
Machine Age	hrs	Client Info		9499	6977	6618
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	MARGINAL
Iron	ppm	ASTM D5185m	>51	20	12	22
Chromium	ppm	ASTM D5185m	>11	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	▲ 43	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>31	10	2	1
Lead	ppm	ASTM D5185m	>26	0	<1	1
Copper	ppm	ASTM D5185m	>26	3	<1	2
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	7	5	2
Potassium	ppm	ASTM D5185m	>20	13	2	2
Fuel		WC Method	>2.1	<1.0	<1.0	▲ 2.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.2	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	23.7	27.3
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	4	3	4
Boron	ppm	ASTM D5185m		186	202	121
Barium	ppm	ASTM D5185m		<1	<1	<1
Molybdenum	ppm	ASTM D5185m		225	251	261
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		755	824	798
Calcium	ppm	ASTM D5185m		1391	1476	1483
Phosphorus	ppm	ASTM D5185m		905	899	838
Zinc	ppm	ASTM D5185m		1072	1012	956
Sulfur	ppm	ASTM D5185m		2983	2504	2492
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	17.8	23.1
Base Number (BN)	mg KOH/g	ASTM D2896		8.1	9.3	8.1
Visc @ 100°C	cSt	ASTM D445		13.4	14.0	14.0

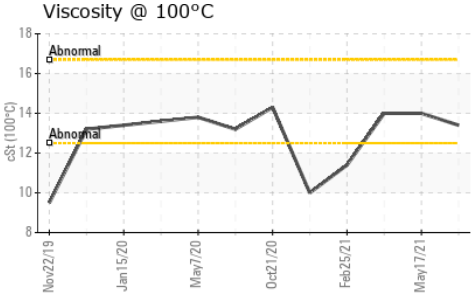
Ferrous Alloys



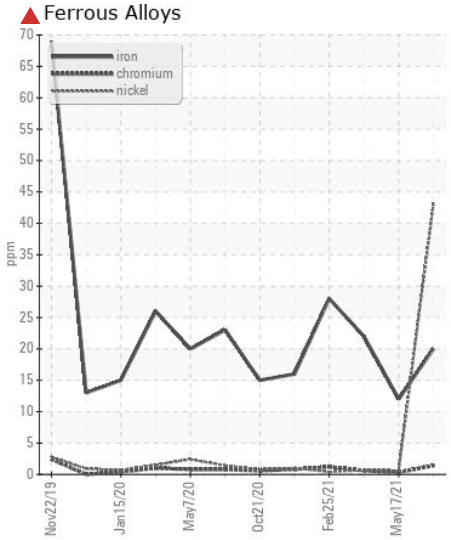
Base Number



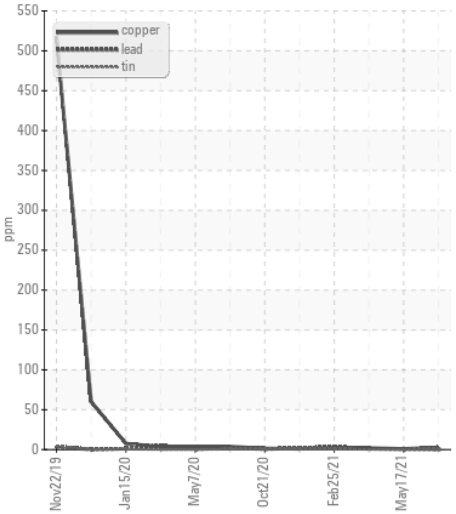
Viscosity @ 100°C



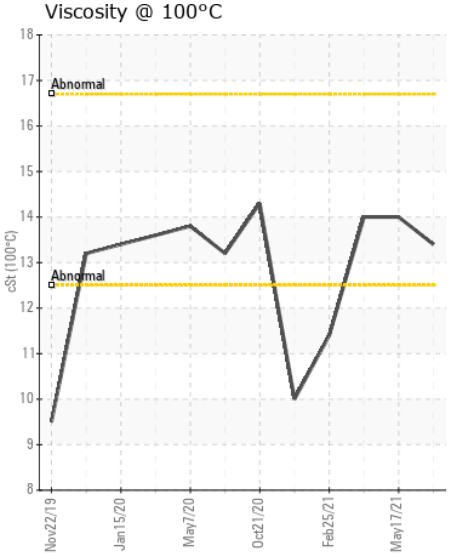
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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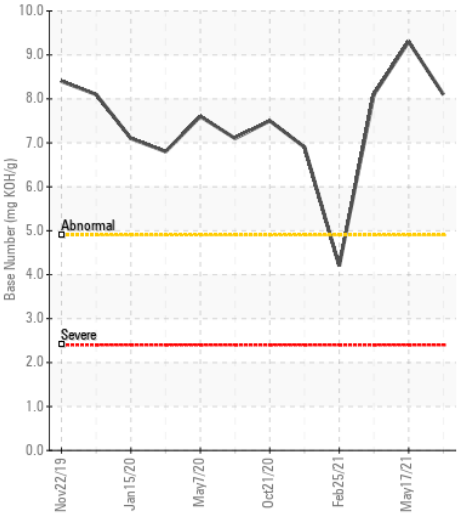

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0194252
Lab Number : 06036559
Unique Number : 10791788
Test Package : CONST (Additional Tests: TBN)

Received : 15 Dec 2023
Tested : 21 Dec 2023
Diagnosed : 22 Dec 2023 - Jonathan Hester

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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