James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 750L 1T0750LXPNF423106
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

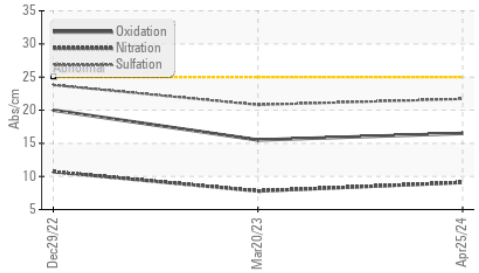
There is no indication of any contamination in the oil.

FLUID CONDITION

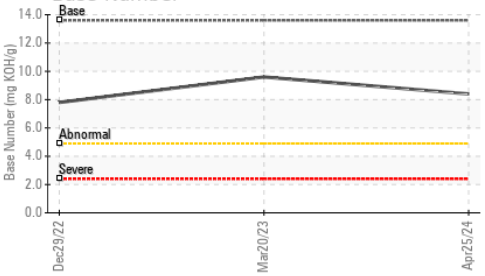
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0212894	JR0153015	JR0152877
Sample Date		Client Info		25 Apr 2024	20 Mar 2023	29 Dec 2022
Machine Age	hrs	Client Info		1978	1044	865
Oil Age	hrs	Client Info		934	179	865
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	10	▲ 80	37
Chromium	ppm	ASTM D5185m	>11	0	2	1
Nickel	ppm	ASTM D5185m	>5	6	<1	3
Titanium	ppm	ASTM D5185m		0	3	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>31	5	7	4
Lead	ppm	ASTM D5185m	>26	0	2	5
Copper	ppm	ASTM D5185m	>26	1	▲ 154	▲ 341
Tin	ppm	ASTM D5185m	>4	<1	<1	3
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	6	▲ 38	10
Potassium	ppm	ASTM D5185m	>20	0	1	1
Fuel		WC Method	>2.1	<1.0	<1.0	0.5
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.1	7.8	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	20.8	23.8
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	2	8	5
Boron	ppm	ASTM D5185m		236	38	94
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		275	212	238
Manganese	ppm	ASTM D5185m		<1	3	3
Magnesium	ppm	ASTM D5185m		876	726	697
Calcium	ppm	ASTM D5185m		1492	1804	1775
Phosphorus	ppm	ASTM D5185m		972	834	958
Zinc	ppm	ASTM D5185m		1140	1085	1252
Sulfur	ppm	ASTM D5185m		3320	3007	3290
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	15.5	20.0
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.4	9.6	7.8
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.5	11.6

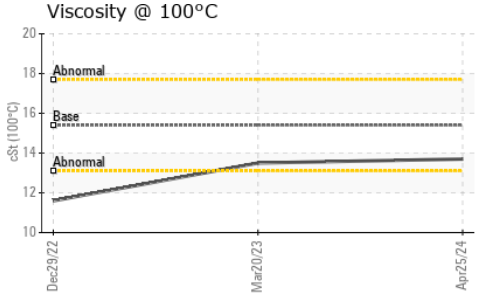
FT-IR (Direct Trend)



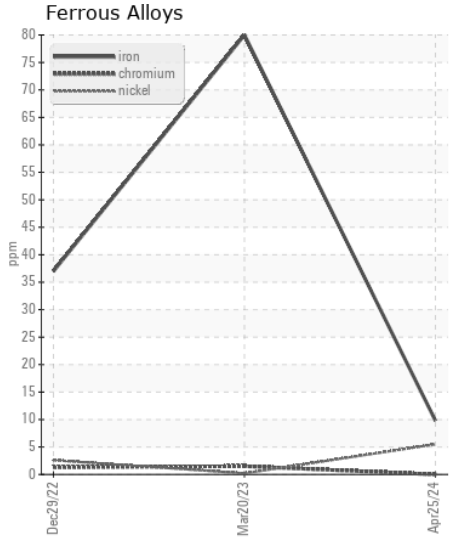
Base Number



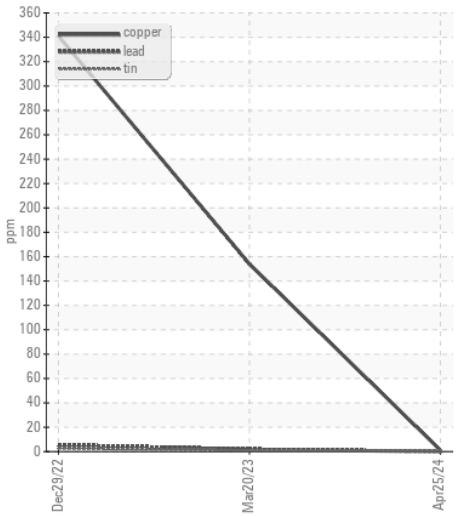
Viscosity @ 100°C



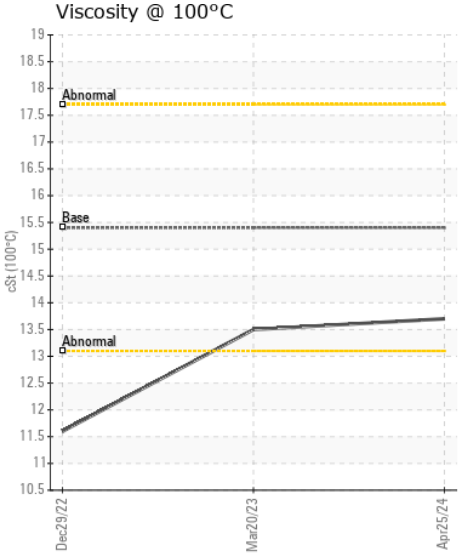
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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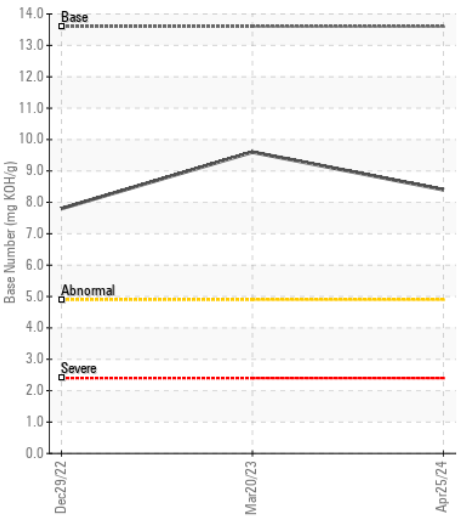

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212894
Lab Number : 06160134
Unique Number : 10995557
Test Package : CONST (Additional Tests: TBN)

Received : 25 Apr 2024
Tested : 29 Apr 2024
Diagnosed : 29 Apr 2024 - Sean Felton

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 - GARNER
4161 AUBURN CHURCH RD
GARNER, NC
US 27529
Contact: RALEIGH SHOP
sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com
T: (919)614-2260
F: (919)779-5432