CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 750K 1T0750KXJLF368013
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. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

CONTAMINATION

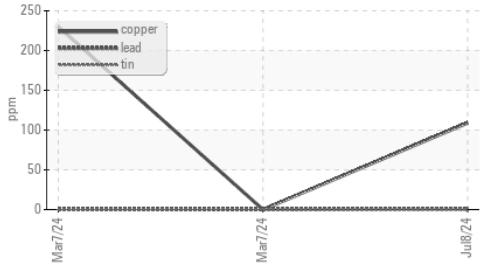
There is no indication of any contamination in the oil.

FLUID CONDITION

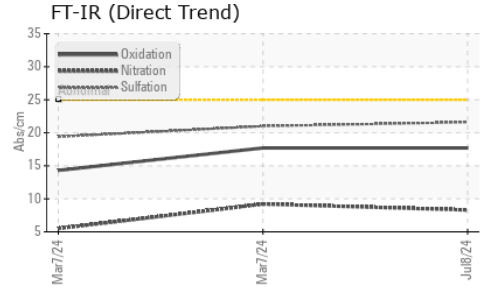
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0226164	JR0200781	JR0202175
Sample Date		Client Info		08 Jul 2024	07 Mar 2024	07 Mar 2024
Machine Age	hrs	Client Info		4489	4018	4021
Oil Age	hrs	Client Info		471	4018	3
Filter Age	hrs	Client Info		0	0	3
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>51	13	16	2
Chromium	ppm	ASTM D5185m	>11	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>31	5	4	4
Lead	ppm	ASTM D5185m	>26	<1	<1	0
Copper	ppm	ASTM D5185m	>26	▲ 109	▲ 230	0
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	8	9	6
Potassium	ppm	ASTM D5185m	>20	2	3	2
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	0.3	0.4	0
Nitration	Abs/cm	*ASTM D7624	>20	8.3	9.2	5.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	21.0	19.4
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	>31	3	2	1
Boron	ppm	ASTM D5185m		187	78	254
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		200	114	214
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		646	361	720
Calcium	ppm	ASTM D5185m		1666	1878	1253
Phosphorus	ppm	ASTM D5185m		992	1036	824
Zinc	ppm	ASTM D5185m		1174	1222	985
Sulfur	ppm	ASTM D5185m		3793	3615	2881
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	17.7	14.3
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.8	7.2	10.2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.5	14.06

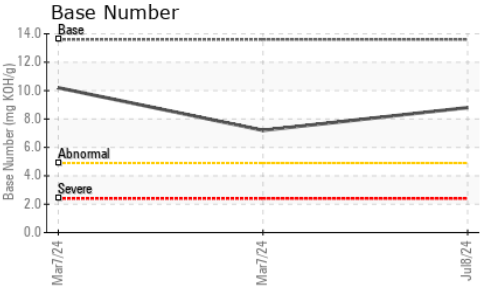
Non-ferrous Metals



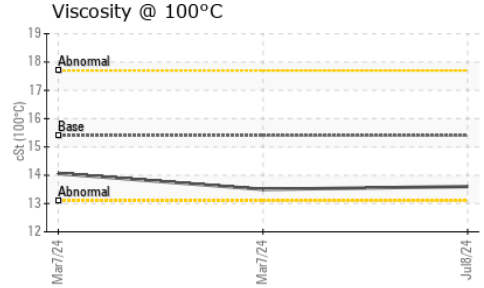
FT-IR (Direct Trend)



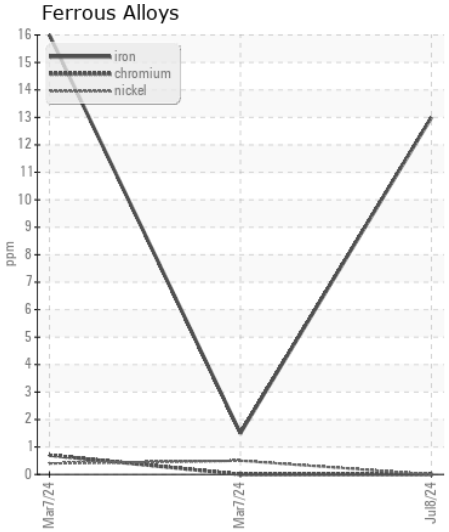
Base Number



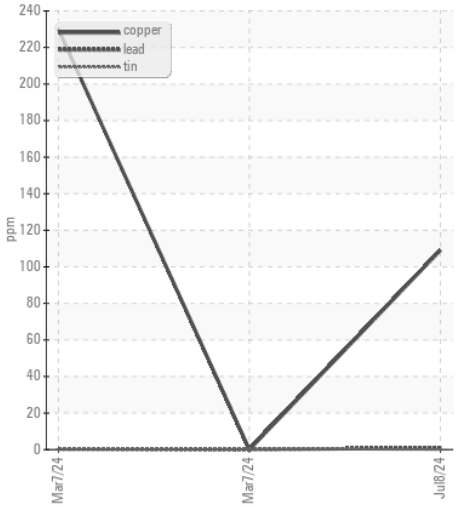
Viscosity @ 100°C



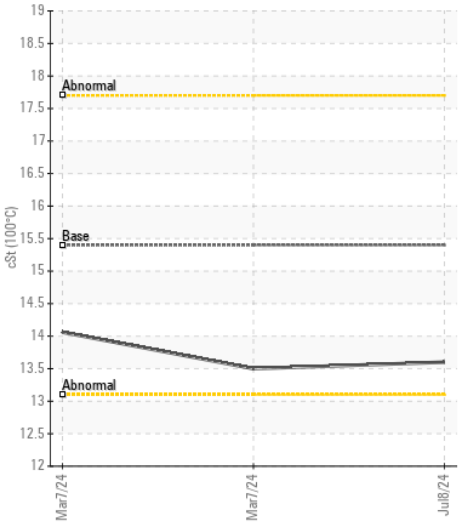
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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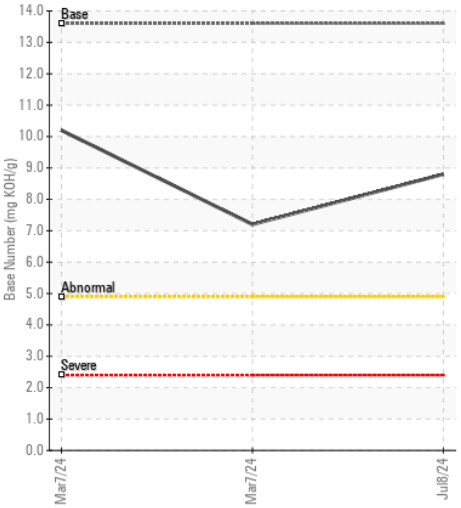

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0226164
Lab Number : 06231255
Unique Number : 11114748
Test Package : CONST (Additional Tests: TBN)

Received : 09 Jul 2024
Tested : 10 Jul 2024
Diagnosed : 10 Jul 2024 - Don Baldridge

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 - GREENVILLE
3604 HIGHWAY 264 E
GREENVILLE, NC
US 27834-5800
Contact: GREENVILLE SHOP
christopher.martin@jamesriverequipment.com
T:
F: