James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[16W16533]
Machine Id
JOHN DEERE 844L 1DW844LXANL714138
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (42 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 16W16533)

WEAR

All component wear rates are normal.

CONTAMINATION

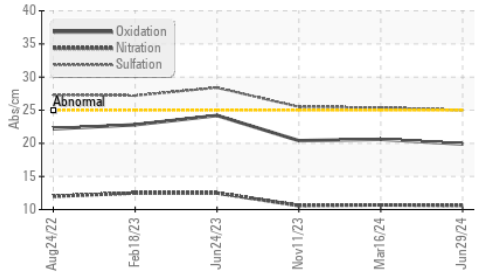
There is no indication of any contamination in the oil.

FLUID CONDITION

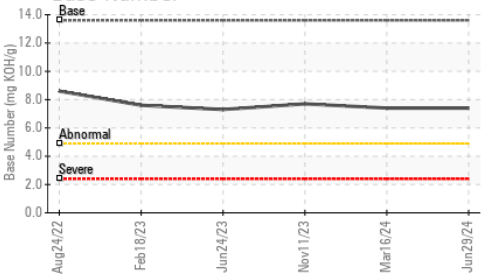
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217314	JR0206948	JR0185704
Sample Date		Client Info		29 Jun 2024	16 Mar 2024	11 Nov 2023
Machine Age	hrs	Client Info		2979	2502	2041
Oil Age	hrs	Client Info		477	461	444
Filter Age	hrs	Client Info		477	461	444
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	17	14	16
Chromium	ppm	ASTM D5185m	>11	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>31	5	2	4
Lead	ppm	ASTM D5185m	>26	15	10	17
Copper	ppm	ASTM D5185m	>26	21	25	▲ 31
Tin	ppm	ASTM D5185m	>4	4	3	▲ 6
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	7	5	7
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	0.5	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.6	10.7	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	25.4	25.5
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	3	4
Boron	ppm	ASTM D5185m		69	87	99
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		270	253	258
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		798	867	873
Calcium	ppm	ASTM D5185m		1407	1444	1409
Phosphorus	ppm	ASTM D5185m		775	817	833
Zinc	ppm	ASTM D5185m		980	949	1032
Sulfur	ppm	ASTM D5185m		2706	3428	3021
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	20.6	20.4
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.4	7.4	7.7
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.2	13.3

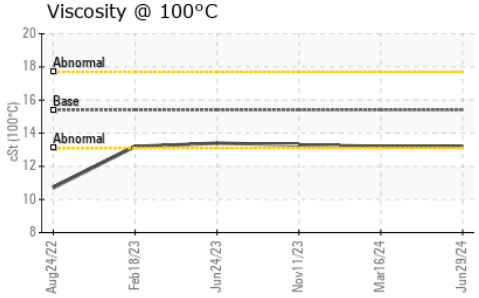
FT-IR (Direct Trend)



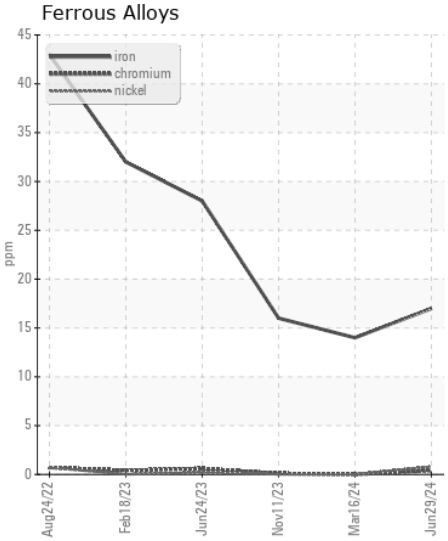
Base Number



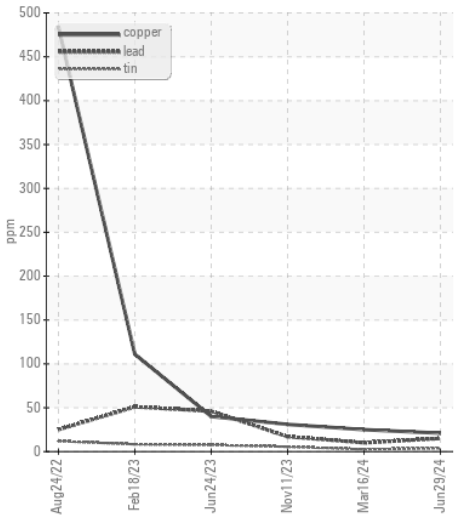
Viscosity @ 100°C



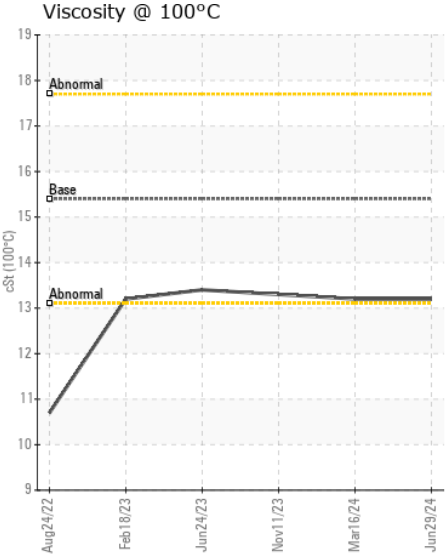
Ferrous Alloys



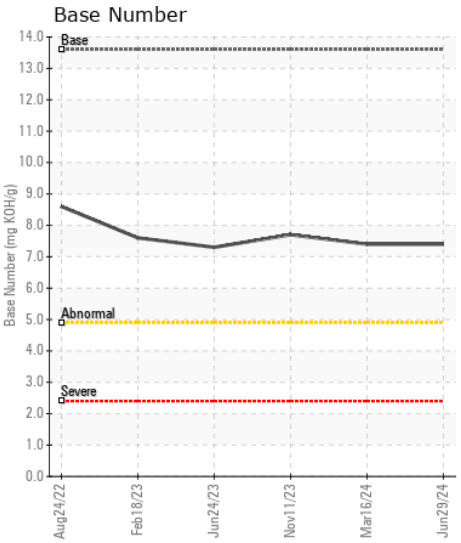
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0217314 **Received** : 02 Jul 2024
Lab Number : 06225846 **Tested** : 03 Jul 2024
Unique Number : 11109339 **Diagnosed** : 03 Jul 2024 - Jonathan Hester
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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