MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
PCS
Machine Id
JOHN DEERE 744J LD08 - PCS
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (40 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

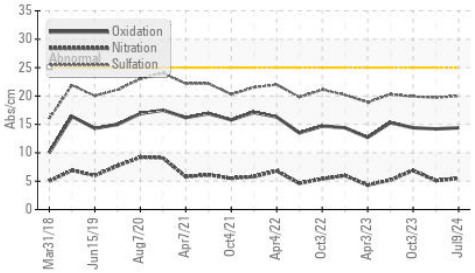
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

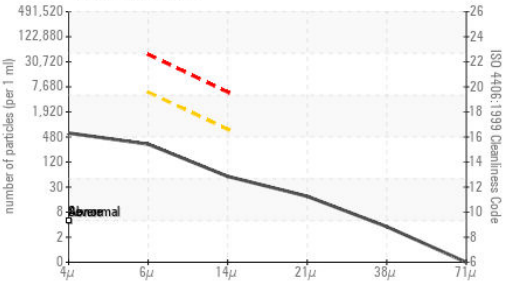
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014724	KL0013773	KL0013054
Sample Date		Client Info		09 Jul 2024	10 Apr 2024	03 Oct 2023
Machine Age	hrs	Client Info		9772	9703	9326
Oil Age	hrs	Client Info		446	377	538
Filter Age	hrs	Client Info		446	377	538
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	10	12	7
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	1	3	0
Lead	ppm	ASTM D5185m	>26	0	1	4
Copper	ppm	ASTM D5185m	>26	<1	5	1
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	4	6	5
Potassium	ppm	ASTM D5185m	>20	<1	1	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	0.2	0.6
Nitration	Abs/cm	*ASTM D7624	>20	5.5	5.1	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	19.7	19.9
Particles >4µm		ASTM D7647		522	1592	18730
Particles >6µm		ASTM D7647	>5000	284	867	▲ 10203
Particles >14µm		ASTM D7647	>640	48	148	▲ 1737
Particles >21µm		ASTM D7647	>160	16	50	▲ 585
Particles >38µm		ASTM D7647	>40	3	8	▲ 90
Particles >71µm		ASTM D7647	>10	0	1	9
Oil Cleanliness		ISO 4406 (c)	>19/16	15/13	17/14	▲ 21/18
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	4	0
Boron	ppm	ASTM D5185m		405	485	227
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		89	94	100
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		370	371	252
Calcium	ppm	ASTM D5185m		1598	1554	1695
Phosphorus	ppm	ASTM D5185m	760	1086	1136	1005
Zinc	ppm	ASTM D5185m	800	1307	1290	1241
Sulfur	ppm	ASTM D5185m	3000	4254	4040	4081
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	14.2	14.4
Base Number (BN)	mg KOH/g	ASTM D2896	10	8.09	7.42	10.30
Visc @ 100°C	cSt	ASTM D445	14.6	13.8	14.0	13.7

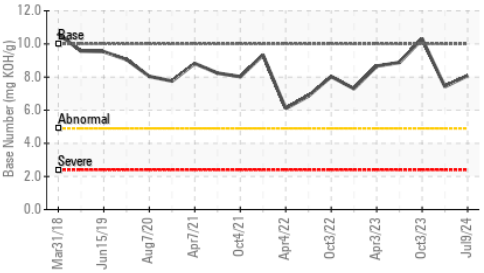
FT-IR (Direct Trend)



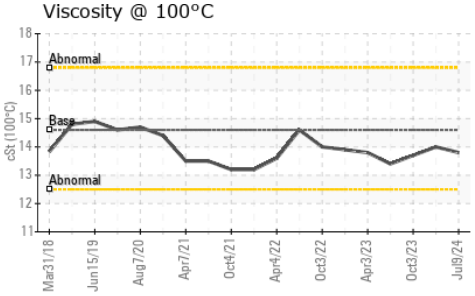
Particle Count



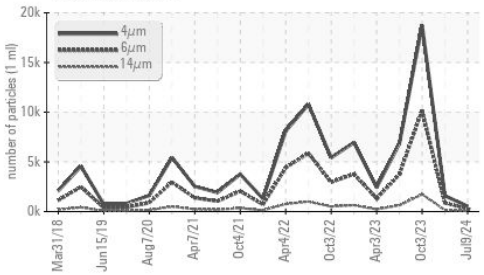
Base Number



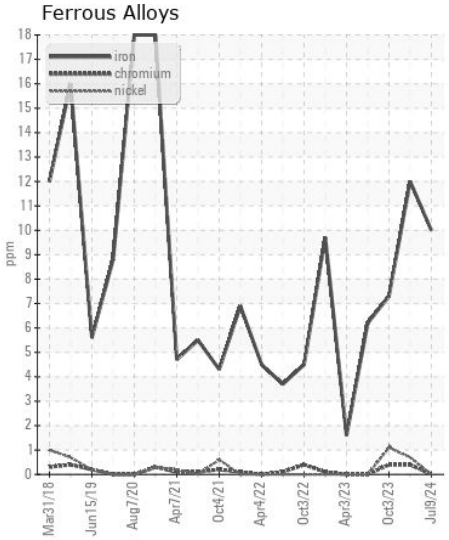
Viscosity @ 100°C



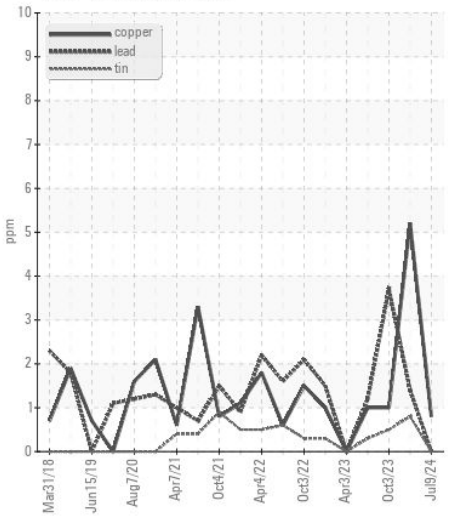
Particle Trend



Ferrous Alloys



Non-ferrous Metals



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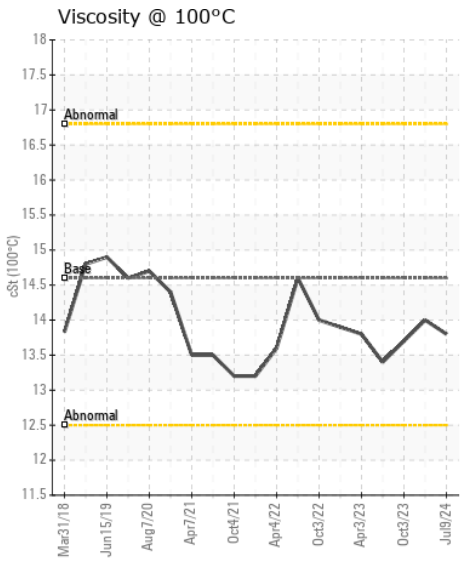

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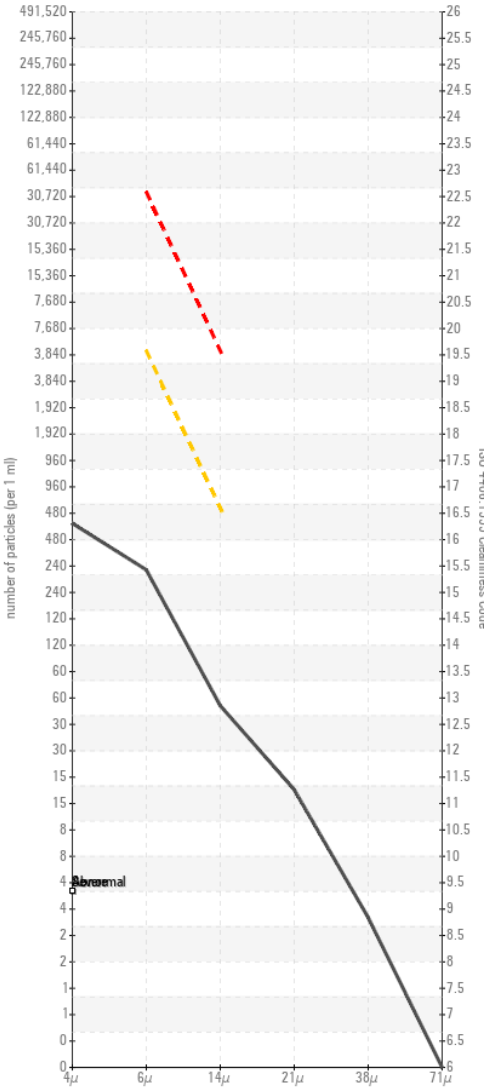

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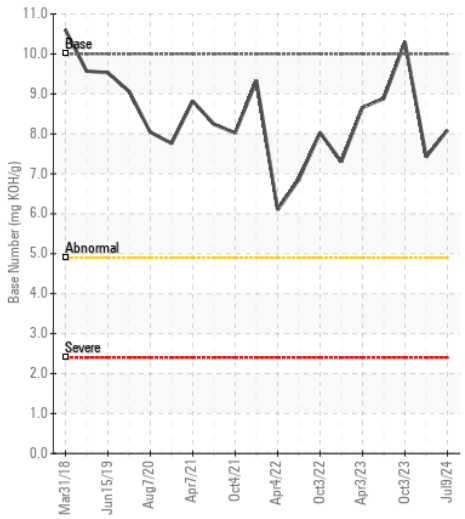

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014724
Lab Number : 06237999
Unique Number : 11126833
Test Package : MOB 2 (Additional Tests: PrtCount)

Received : 16 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 18 Jul 2024 - Don Baldridge

Certificate L2367

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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