



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 4 - Fairmont [RO# 151959]
Machine Id
JOHN DEERE 750K 1T0750KXKKF355243
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (30 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0051023	LEC0044943	LEC0036725
Sample Date		Client Info		12 Jun 2024	30 Nov 2023	14 Nov 2022
Machine Age	hrs	Client Info		3269	2725	2083
Oil Age	hrs	Client Info		3269	2725	2083
Filter Age	hrs	Client Info		1186	642	2083
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	ATTENTION

WEAR

The iron level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184	>50	21	14	17
Iron	ppm	ASTM D5185m	>23	▲ 36	9	14
Chromium	ppm	ASTM D5185m	>9	2	1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		3	3	3
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>9	5	4	4
Lead	ppm	ASTM D5185m	>28	4	4	5
Copper	ppm	ASTM D5185m	>51	16	16	19
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

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

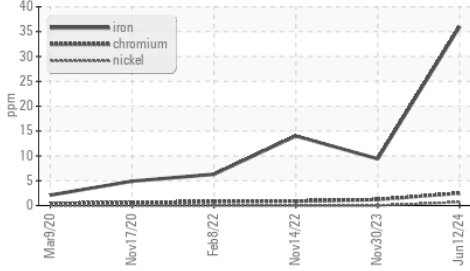
Silicon	ppm	ASTM D5185m	>31	10	4	4
Potassium	ppm	ASTM D5185m	>20	6	4	4
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	12210	30822	● 122448
Particles >6µm		ASTM D7647	>20000	165	223	10334
Particles >14µm		ASTM D7647	>640	11	11	22
Particles >21µm		ASTM D7647	>160	4	3	2
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	21/15/11	22/15/11	● 24/21/12
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	>0.075	NEG	NEG	NEG

FLUID CONDITION

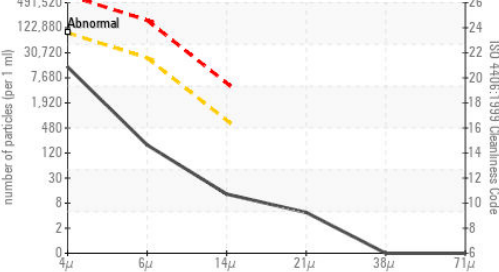
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	23	27	4
Boron	ppm	ASTM D5185m		<1	0	1
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		2	0	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		6	6	6
Calcium	ppm	ASTM D5185m	87	227	278	289
Phosphorus	ppm	ASTM D5185m	727	651	595	552
Zinc	ppm	ASTM D5185m	900	737	689	592
Sulfur	ppm	ASTM D5185m	1500	1990	1486	1517
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.70	0.64	0.68
Visc @ 40°C	cSt	ASTM D445	65	57.0	55.4	54.5

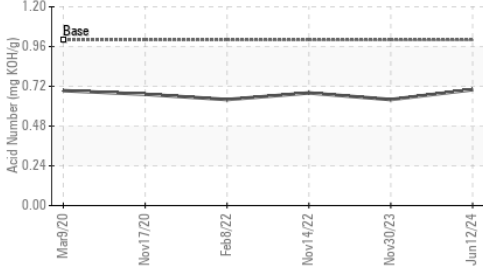
▲ Ferrous Alloys



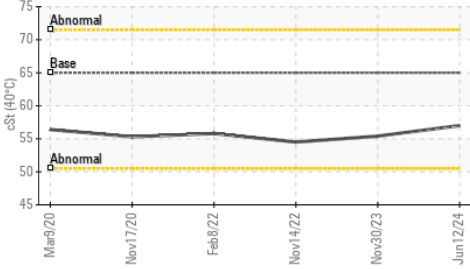
Particle Count



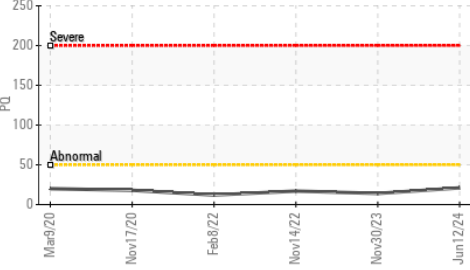
Acid Number



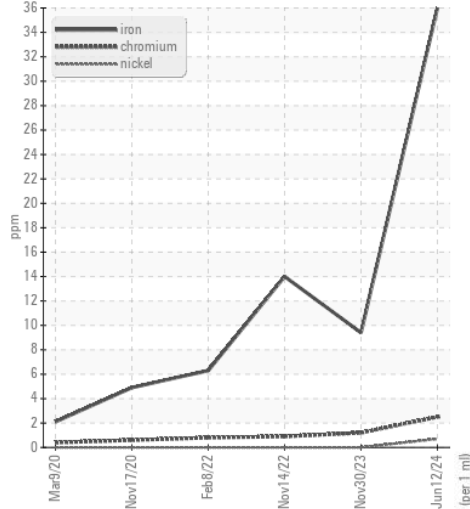
Viscosity @ 40°C



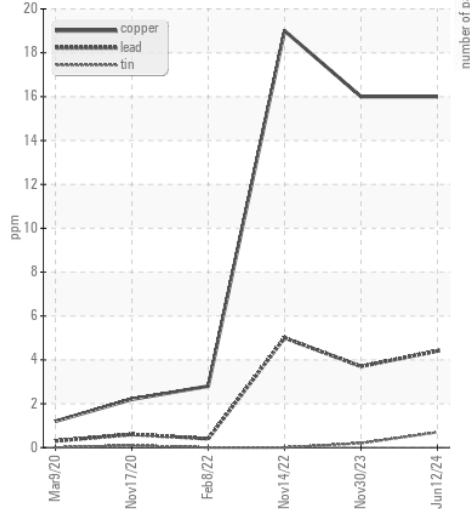
PQ



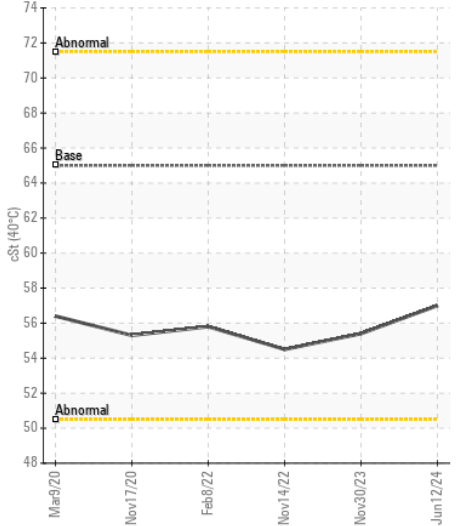
▲ Ferrous Alloys



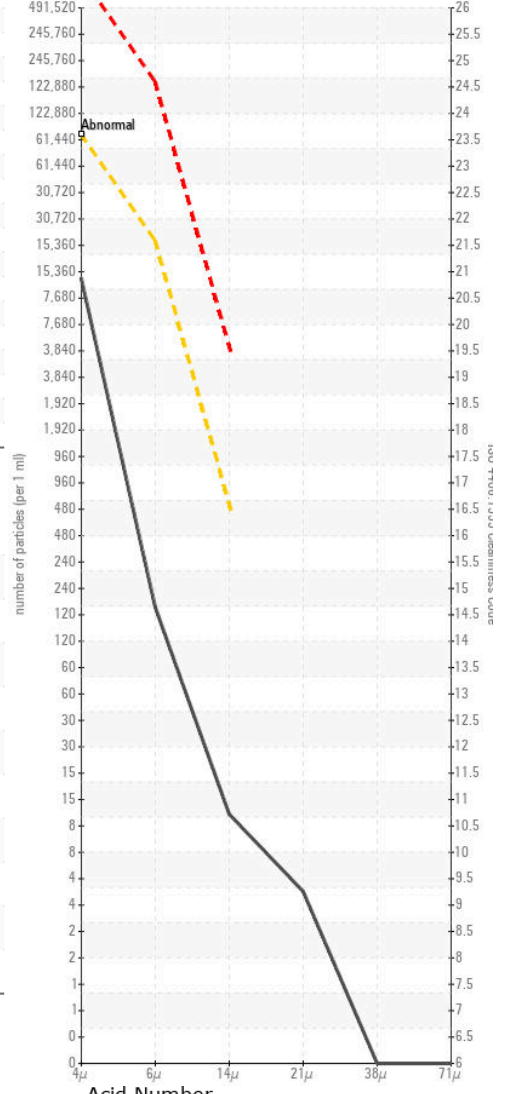
Non-ferrous Metals



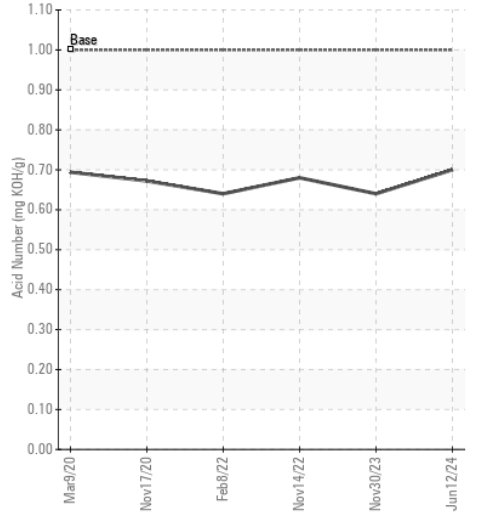
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0051023 **Received** : 24 Jun 2024
Lab Number : 06218537 **Tested** : 27 Jun 2024
Unique Number : 11096734 **Diagnosed** : 27 Jun 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

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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