CONST

LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area
Store 4 - Fairmont
Machine Id
JOHN DEERE 624K 1DW624KPPB0636481
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (28 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

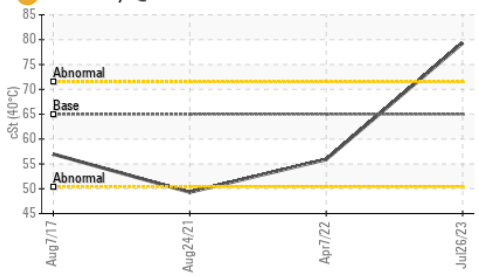
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

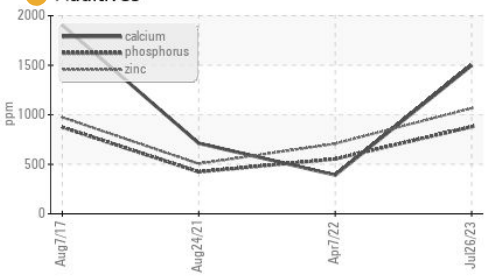
The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0038144	LEC0028859	LEC0025140
Sample Date		Client Info		26 Jul 2023	07 Apr 2022	24 Aug 2021
Machine Age	hrs	Client Info		17447	15192	14334
Oil Age	hrs	Client Info		2255	858	14334
Filter Age	hrs	Client Info		3113	585	14334
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	ABNORMAL
PQ		ASTM D8184	>50	17	18	27
Iron	ppm	ASTM D5185m	>71	15	31	49
Chromium	ppm	ASTM D5185m	>11	3	4	6
Nickel	ppm	ASTM D5185m	>6	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>11	4	2	3
Lead	ppm	ASTM D5185m	>13	0	<1	<1
Copper	ppm	ASTM D5185m	>21	1	3	5
Tin	ppm	ASTM D5185m	>5	0	0	<1
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	>24	7	5	8
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	18059	7087	---
Particles >6µm		ASTM D7647	>5000	442	607	---
Particles >14µm		ASTM D7647	>640	31	68	---
Particles >21µm		ASTM D7647	>160	6	24	---
Particles >38µm		ASTM D7647	>40	0	2	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/19/16	21/16/12	20/16/13	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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
Sodium	ppm	ASTM D5185m	>21	3	1	4
Boron	ppm	ASTM D5185m		● 207	24	52
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		● 139	19	45
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		● 480	69	147
Calcium	ppm	ASTM D5185m	87	● 1498	391	712
Phosphorus	ppm	ASTM D5185m	727	879	553	423
Zinc	ppm	ASTM D5185m	900	1066	707	505
Sulfur	ppm	ASTM D5185m	1500	● 3435	1361	1479
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.84	0.62	0.741
Visc @ 40°C	cSt	ASTM D445	65	● 79.3	55.9	49.3

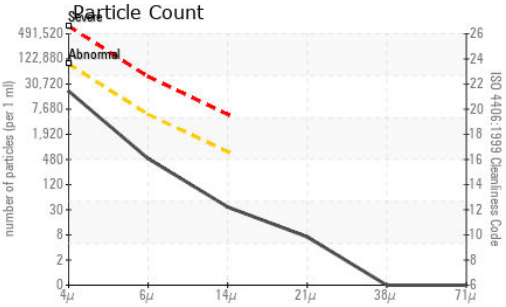
Viscosity @ 40°C



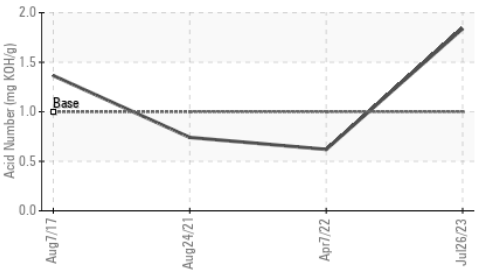
Additives



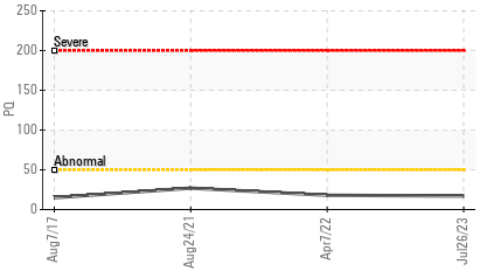
Particle Count



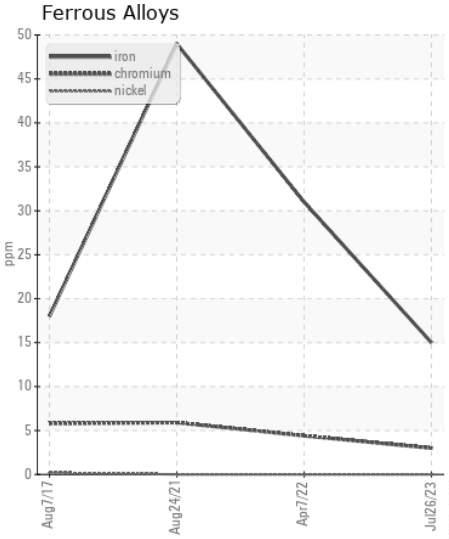
Acid Number



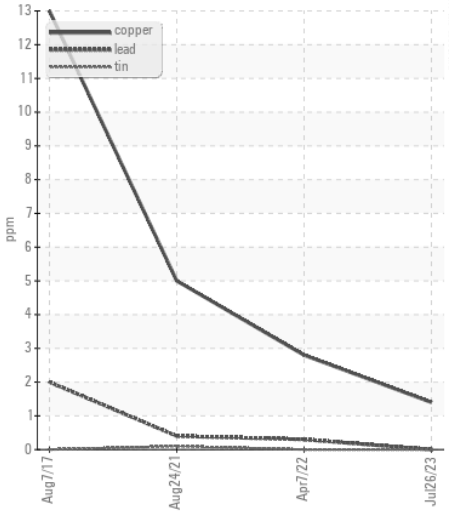
PQ



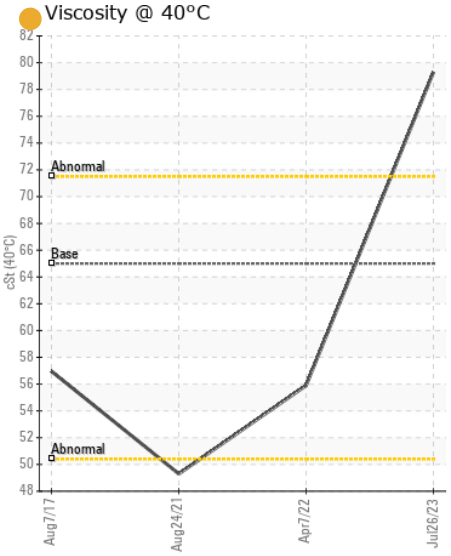
Ferrous Alloys



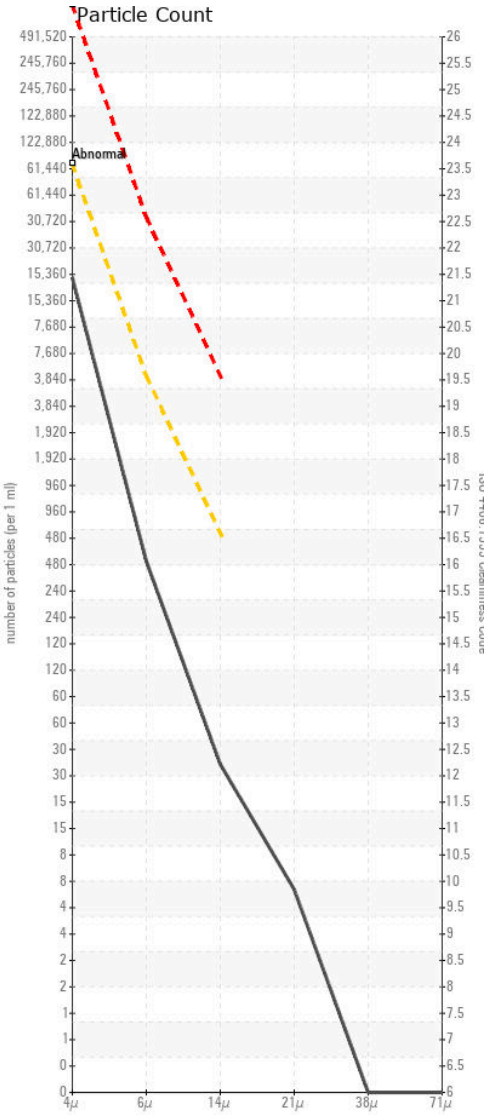
Non-ferrous Metals



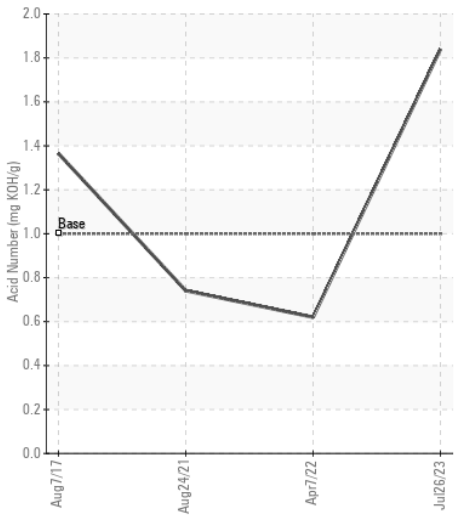
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0038144 **Received** : 08 Sep 2023
Lab Number : 05945606 **Tested** : 11 Sep 2023
Unique Number : 10636218 **Diagnosed** : 11 Sep 2023 - Don Baldridge
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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