



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 6 - Ashland [152254]
Machine Id
JOHN DEERE 844K 28819 (S/N 1DW844KCLJF689430)
Component
Front Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (18 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0051345	LEC0042660	LEC0042003
Sample Date		Client Info		02 Jul 2024	15 Jan 2024	25 Aug 2023
Machine Age	hrs	Client Info		11067	10131	9547
Oil Age	hrs	Client Info		2645	1709	1125
Filter Age	hrs	Client Info		2645	1709	1125
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	MARGINAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		36	35	32
Iron	ppm	ASTM D5185m	>1501	107	83	78
Chromium	ppm	ASTM D5185m	>11	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>21	1	<1	3
Lead	ppm	ASTM D5185m	>51	7	6	2
Copper	ppm	ASTM D5185m	>101	121	66	59
Tin	ppm	ASTM D5185m	>10	4	4	2
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

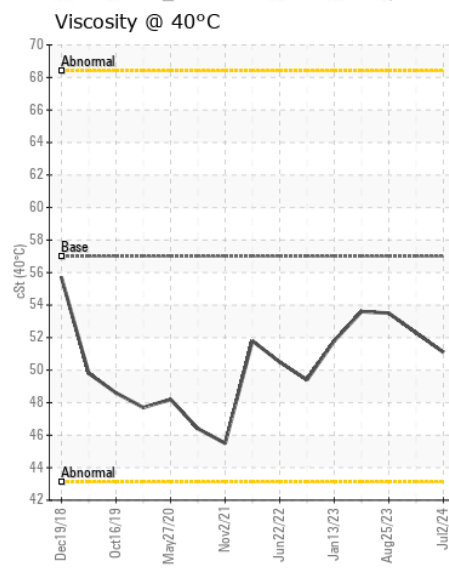
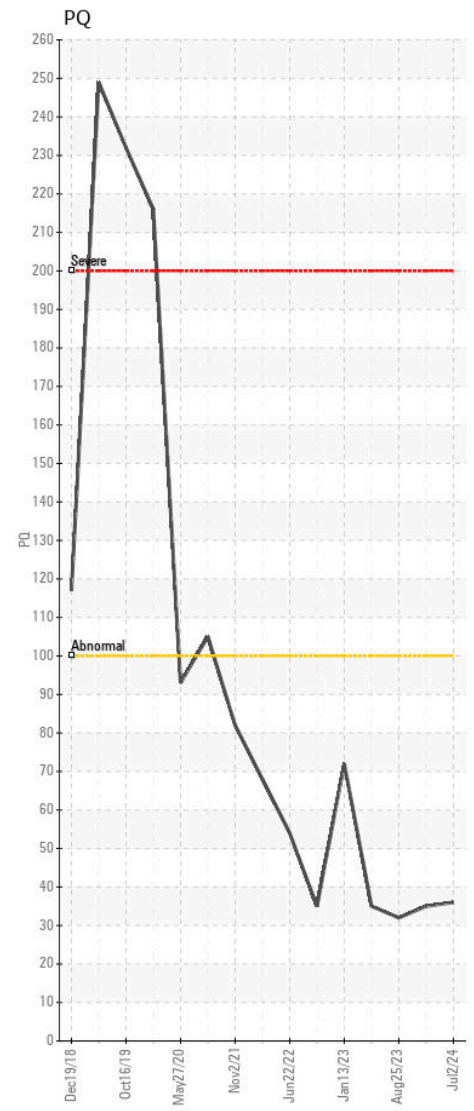
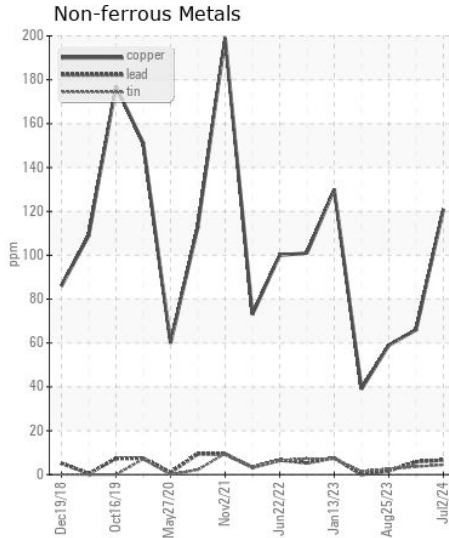
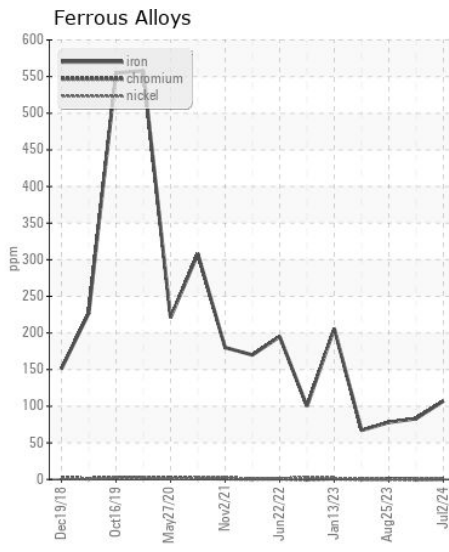
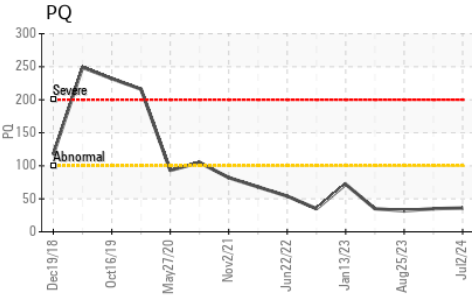
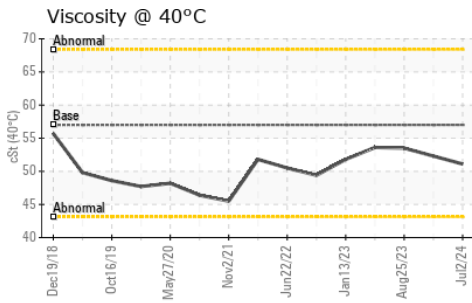
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	7	5	5
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
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	>0.1	NEG	0.2%	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	3	1	2
Boron	ppm	ASTM D5185m	6	0	2	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	1	<1	0
Manganese	ppm	ASTM D5185m		3	2	2
Magnesium	ppm	ASTM D5185m	145	107	104	102
Calcium	ppm	ASTM D5185m	3570	3817	3405	3561
Phosphorus	ppm	ASTM D5185m	1290	1112	1070	1012
Zinc	ppm	ASTM D5185m	1640	1304	1297	1234
Sulfur	ppm	ASTM D5185m		4149	3765	4098
Visc @ 40°C	cSt	ASTM D445	57.0	51.1	52.3	53.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0051345 **Received** : 05 Jul 2024
Lab Number : 06228980 **Tested** : 08 Jul 2024
Unique Number : 11112473 **Diagnosed** : 08 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: PQ)

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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)