



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL



Area
Store 6 - Ashland [146860]
Machine Id
JOHN DEERE 844K 28819 (S/N 1DW844KCLJF689430)
Component
Rear 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		LEC0042661	LEC0042004	LEC0026487
Sample Date		Client Info		15 Jan 2024	25 Aug 2023	20 Apr 2023
Machine Age	hrs	Client Info		10131	9547	8963
Oil Age	hrs	Client Info		1709	1125	3125
Filter Age	hrs	Client Info		1709	1125	3125
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				MARGINAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		40	33	31
Iron	ppm	ASTM D5185m	>1501	82	75	63
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	1	1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	<1	3	<1
Lead	ppm	ASTM D5185m	>51	6	2	0
Copper	ppm	ASTM D5185m	>101	92	81	57
Tin	ppm	ASTM D5185m	>10	7	4	3
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

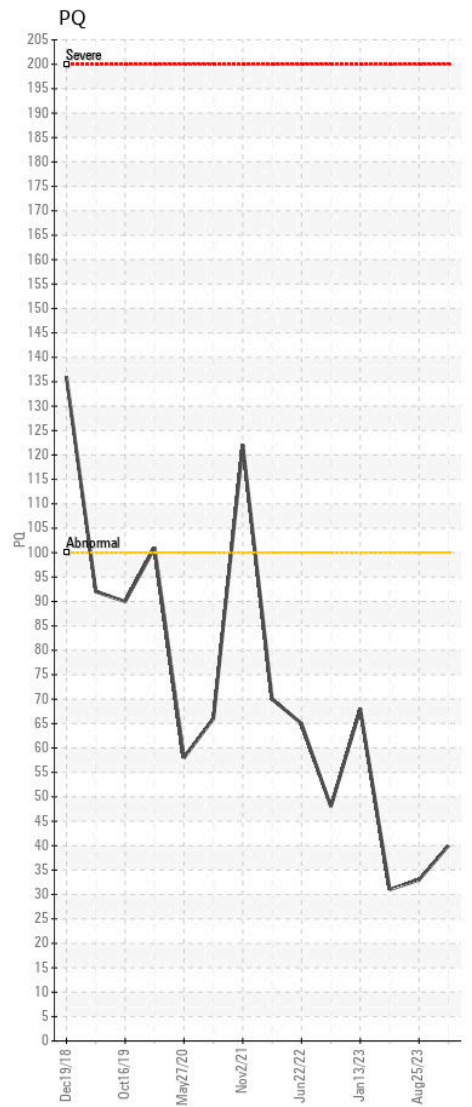
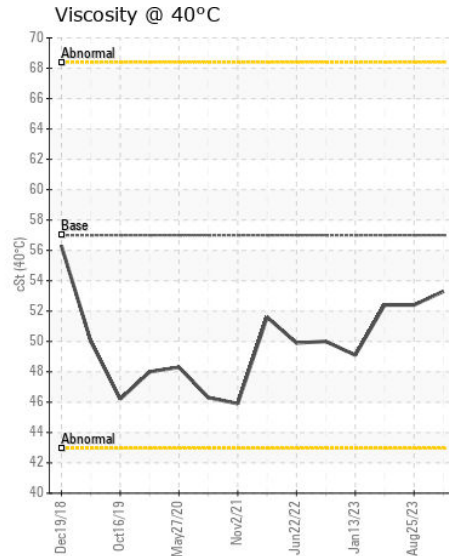
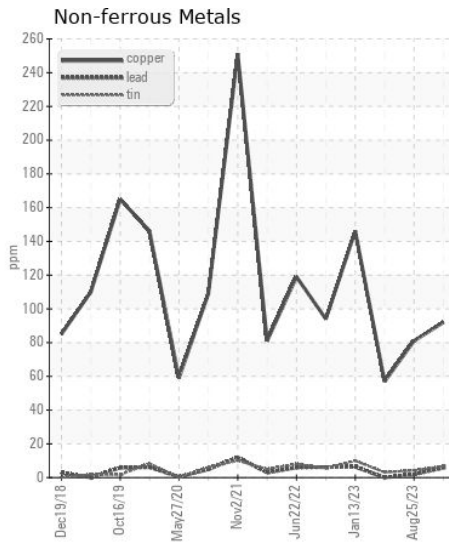
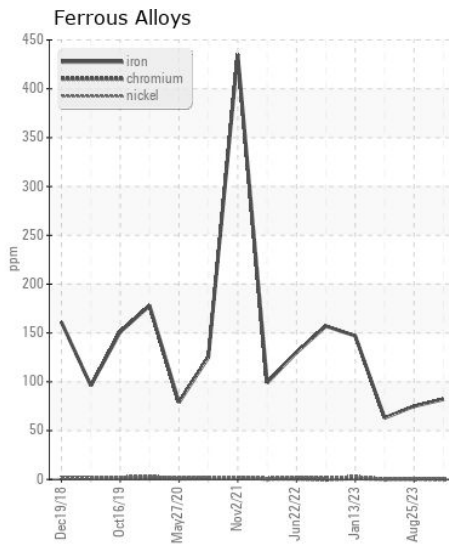
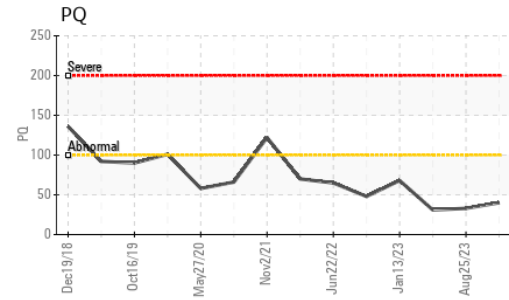
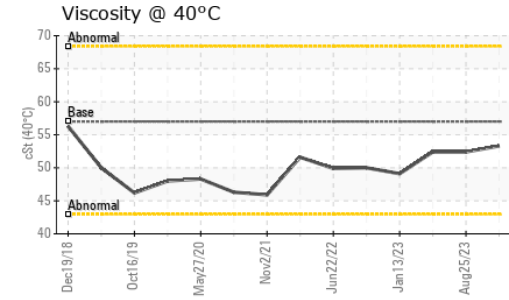
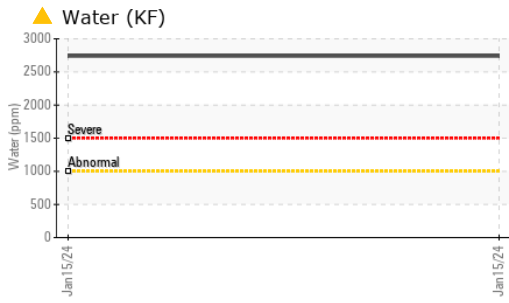
There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>31	6	6	5
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.1	▲ 0.274	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 2740	---	---
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	0.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	1	2	2
Boron	ppm	ASTM D5185m	6	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	<1
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m	145	106	104	98
Calcium	ppm	ASTM D5185m	3570	3459	3648	3264
Phosphorus	ppm	ASTM D5185m	1290	1065	1017	958
Zinc	ppm	ASTM D5185m	1640	1304	1249	1177
Sulfur	ppm	ASTM D5185m		3608	4108	3976
Visc @ 40°C	cSt	ASTM D445	57.0	53.3	52.4	52.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0042661 **Received** : 18 Jan 2024
Lab Number : 06064560 **Diagnosed** : 21 Jan 2024
Unique Number : 10835942 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: KF, 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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