



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 944k 1DW944KSKLF703589
Component
Front Right Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (14 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		LEC0031575	LEC0038500	LEC0034087
Sample Date		Client Info		13 Nov 2023	09 May 2023	28 Nov 2022
Machine Age	hrs	Client Info		4978	4005	3471
Oil Age	hrs	Client Info		973	1997	1463
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	MARGINAL

WEAR

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

PQ		ASTM D8184	>1250	16	12	12
Iron	ppm	ASTM D5185m	>750	13	25	26
Chromium	ppm	ASTM D5185m	>9	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	2	4	<1
Lead	ppm	ASTM D5185m	>15	1	0	0
Copper	ppm	ASTM D5185m	>40	▲ 73	▲ 123	▲ 125
Tin	ppm	ASTM D5185m	>10	0	<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

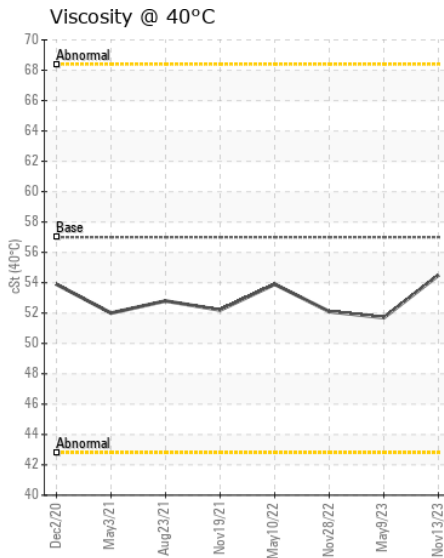
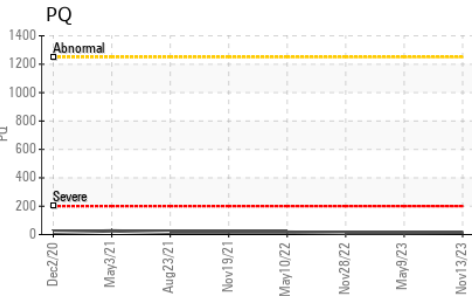
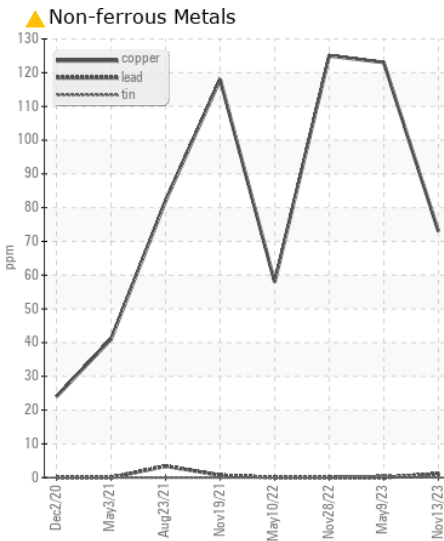
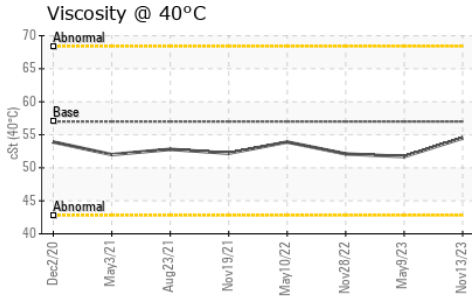
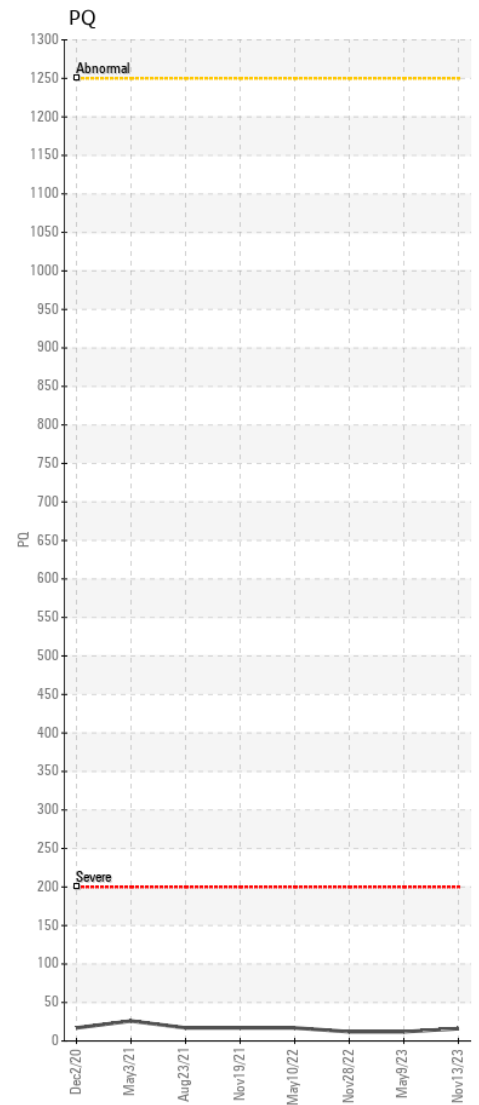
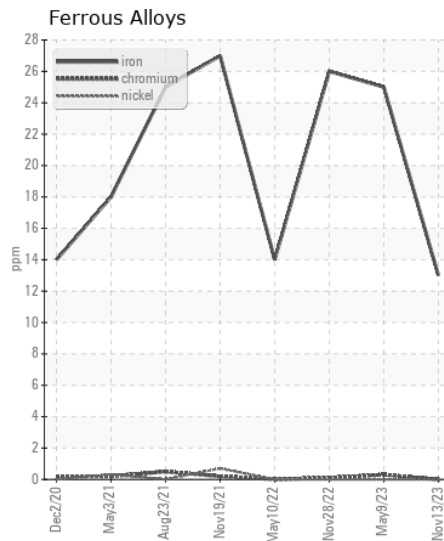
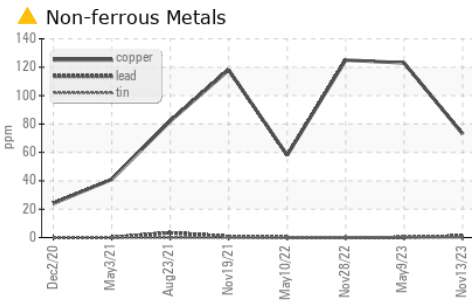
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	17	28	33
Potassium	ppm	ASTM D5185m	>20	2	1	0
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	2	1	0
Boron	ppm	ASTM D5185m	6	0	2	0
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	145	102	96	85
Calcium	ppm	ASTM D5185m	3570	3468	3367	3315
Phosphorus	ppm	ASTM D5185m	1290	1091	1009	959
Zinc	ppm	ASTM D5185m	1640	1344	1249	1095
Sulfur	ppm	ASTM D5185m		3914	4236	4061
Visc @ 40°C	cSt	ASTM D445	57.0	54.5	51.7	52.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0031575 **Received** : 15 Nov 2023
Lab Number : 06008661 **Tested** : 16 Nov 2023
Unique Number : 10742423 **Diagnosed** : 17 Nov 2023 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

APPALACHIAN AGGREGATES
 2950 CHARLES AVENUE
 DUNBAR, WV
 US 25064
 Contact: VERNON SPARKS
 vernon.sparks@appagg.wv.com

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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