



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 460E 1DW460ETPEE664155
 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		JR0224911	JR0180441	JR0106269
Sample Date		Client Info		01 Jul 2024	12 Oct 2023	01 Dec 2021
Machine Age	hrs	Client Info		8982	7988	6011
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		16	19	17
Iron	ppm	ASTM D5185m	>500	8	17	23
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	2
Lead	ppm	ASTM D5185m	>25	<1	0	<1
Copper	ppm	ASTM D5185m	>100	<1	<1	2
Tin	ppm	ASTM D5185m	>10	0	0	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

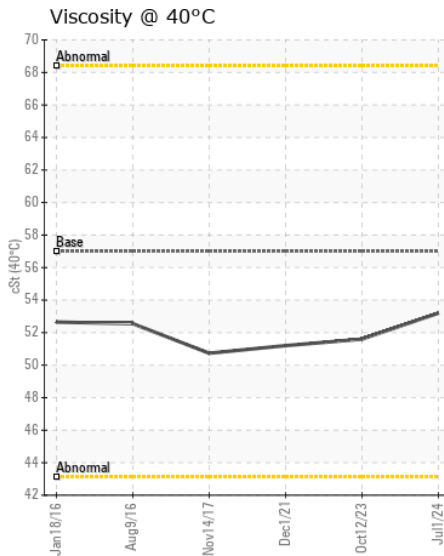
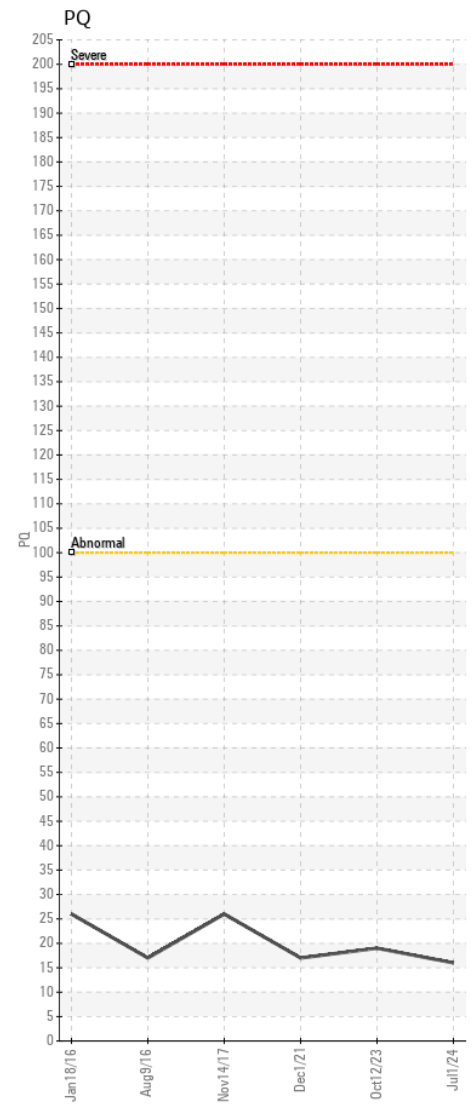
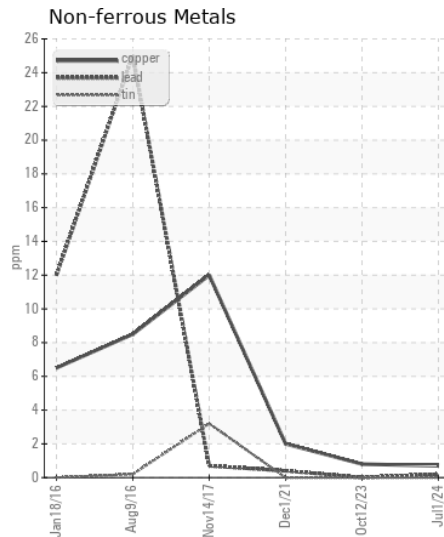
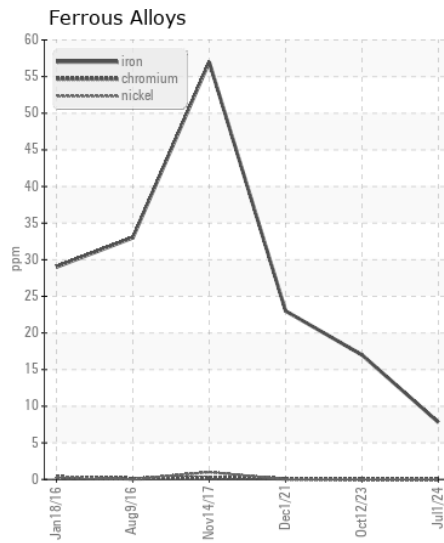
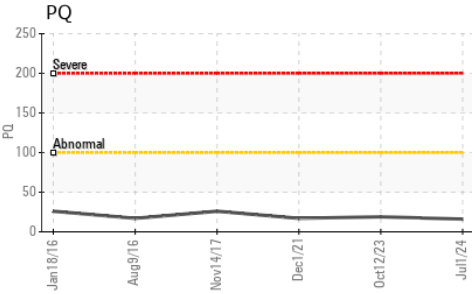
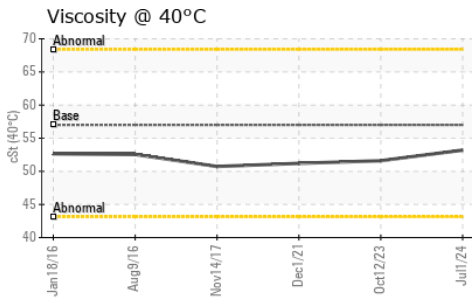
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	4	2	3
Potassium	ppm	ASTM D5185m	>20	0	0	1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	LIGHT	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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		3	<1	0
Boron	ppm	ASTM D5185m	6	0	0	5
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	2	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	145	112	103	66
Calcium	ppm	ASTM D5185m	3570	3851	3308	4139
Phosphorus	ppm	ASTM D5185m	1290	1133	1013	1168
Zinc	ppm	ASTM D5185m	1640	1310	1214	1322
Sulfur	ppm	ASTM D5185m		4364	3308	2767
Visc @ 40°C	cSt	ASTM D445	57.0	53.2	51.6	51.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0224911 **Received** : 05 Jul 2024
Lab Number : 06228950 **Tested** : 08 Jul 2024
Unique Number : 11112443 **Diagnosed** : 08 Jul 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

J.E. LIESFELD CONTRACTOR
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 ROCKVILLE, VA
 US 23146
 Contact: CIELO NAVA-OVALLE
 cielo@liesfeld.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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