



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[16W16457]

Machine Id

JOHN DEERE 748L 1DW748LBAKF697049

Component

Rear Differential

Fluid

JOHN DEERE HY-GARD HYD/TRANS (36 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 16W16457)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217238	JR0176987	JR0175002
Sample Date		Client Info		17 Jun 2024	24 Apr 2024	28 Aug 2023
Machine Age	hrs	Client Info		6084	5926	5628
Oil Age	hrs	Client Info		2000	0	0
Filter Age	hrs	Client Info		2000	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		34	50	29
Iron	ppm	ASTM D5185m	>500	74	55	55
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	2
Lead	ppm	ASTM D5185m	>25	<1	<1	<1
Copper	ppm	ASTM D5185m	>100	12	6	4
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

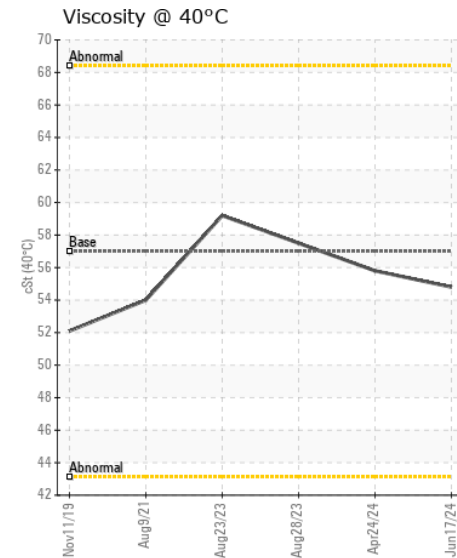
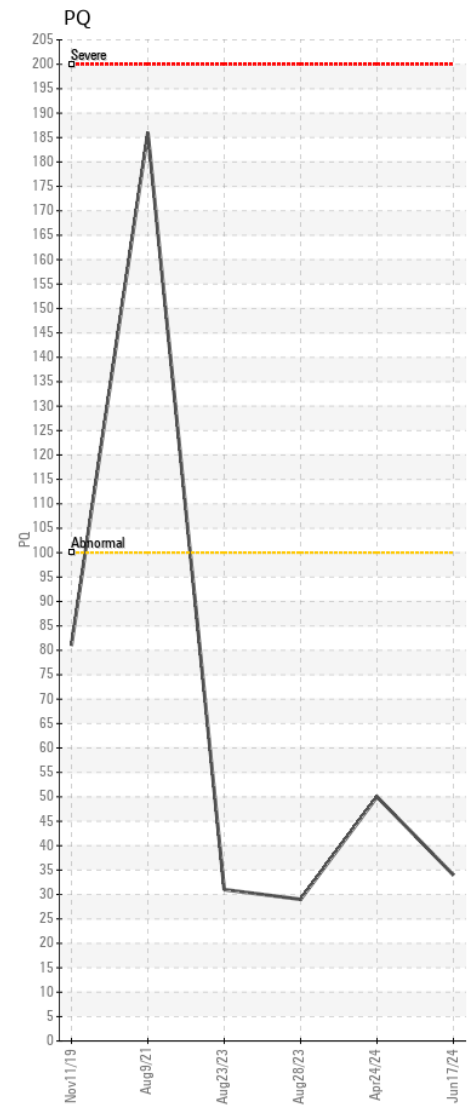
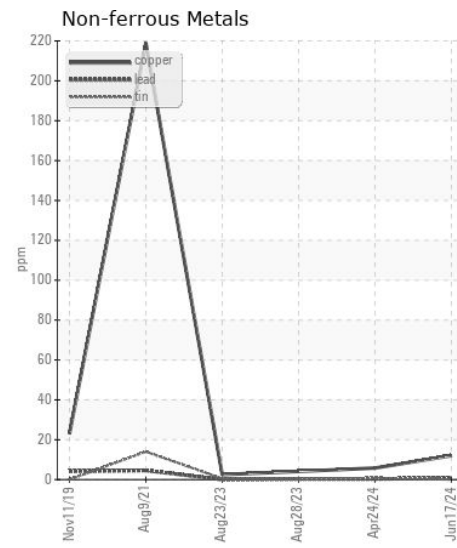
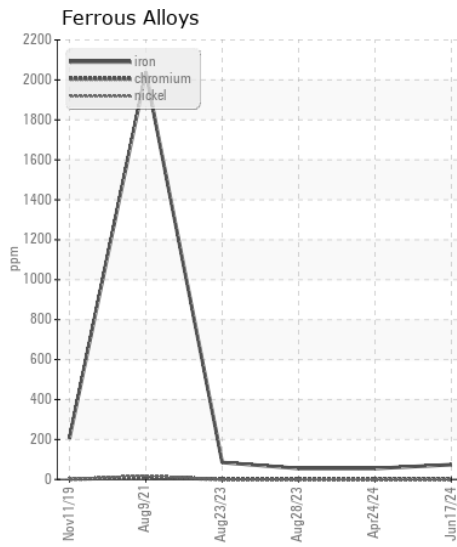
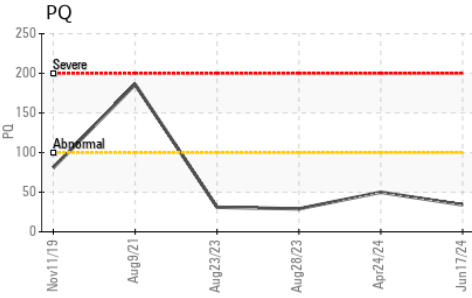
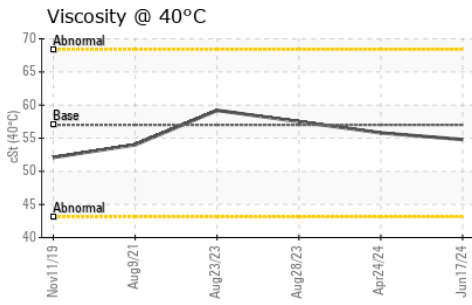
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	9	6	7
Potassium	ppm	ASTM D5185m	>20	<1	0	1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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		28	23	0
Boron	ppm	ASTM D5185m	6	5	4	2
Barium	ppm	ASTM D5185m	0	<1	<1	2
Molybdenum	ppm	ASTM D5185m	0	<1	0	<1
Manganese	ppm	ASTM D5185m		6	6	<1
Magnesium	ppm	ASTM D5185m	145	98	109	97
Calcium	ppm	ASTM D5185m	3570	3460	3494	3554
Phosphorus	ppm	ASTM D5185m	1290	1027	1096	1041
Zinc	ppm	ASTM D5185m	1640	1215	1292	1239
Sulfur	ppm	ASTM D5185m		4024	4158	4316
Visc @ 40°C	cSt	ASTM D445	57.0	54.8	55.8	57.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0217238

Lab Number : 06215000

Unique Number : 11087864

Test Package : CONST (Additional Tests: PQ)

Received : 19 Jun 2024

Tested : 20 Jun 2024

Diagnosed : 21 Jun 2024 - Sean Felton

JRE - CASTLE HAYNE

113 CROWATAN ROAD

CASTLE HAYNE, NC

US 28429-5819

Contact: WILMINGTON SHOP

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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)