



WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 850L 1T0850LXCLF389223
 Component
Left Outer Final Drive
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (16 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0225606	JR0208295	JR0187524
Sample Date		Client Info		16 Jul 2024	06 Mar 2024	12 Oct 2023
Machine Age	hrs	Client Info		4998	4466	3937
Oil Age	hrs	Client Info		1629	1626	1580
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Filter Changed		Client Info		None	None	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	265	1131	404
Iron	ppm	ASTM D5185m	>750	359	1108	804
Chromium	ppm	ASTM D5185m	>9	2	6	4
Nickel	ppm	ASTM D5185m	>10	4	8	6
Titanium	ppm	ASTM D5185m		2	3	5
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	10	15	52
Lead	ppm	ASTM D5185m	>15	<1	0	<1
Copper	ppm	ASTM D5185m	>40	1	2	1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

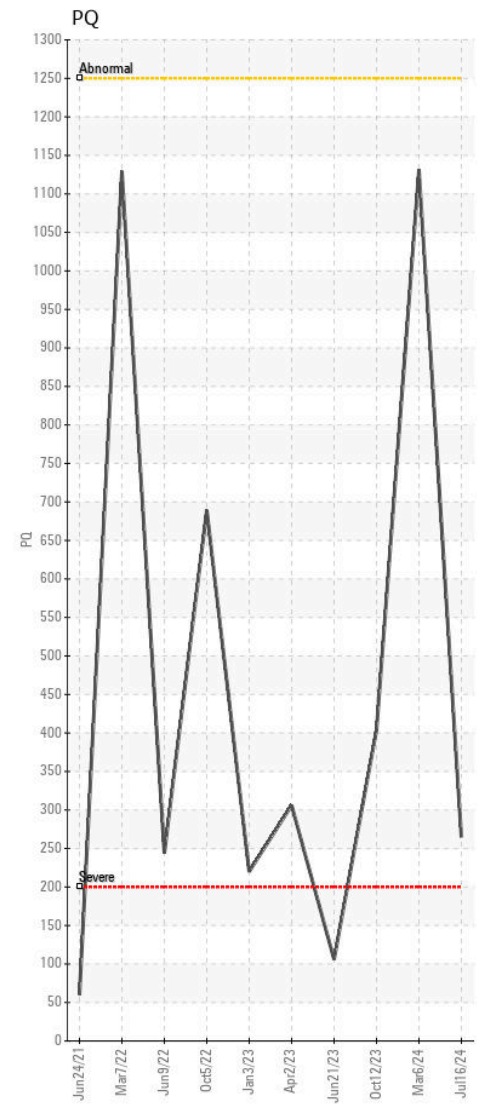
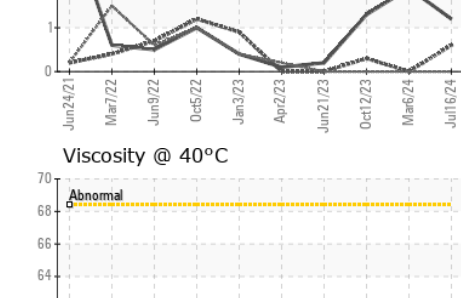
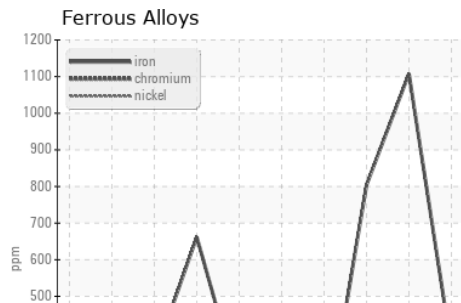
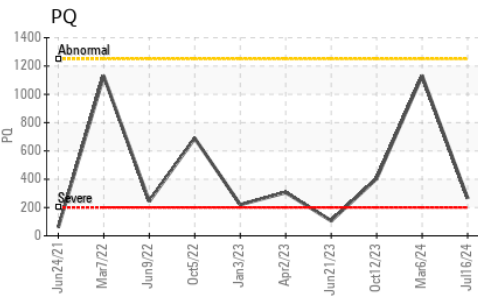
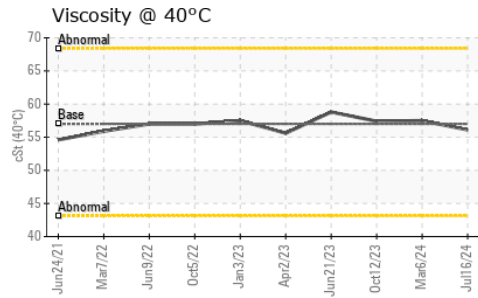
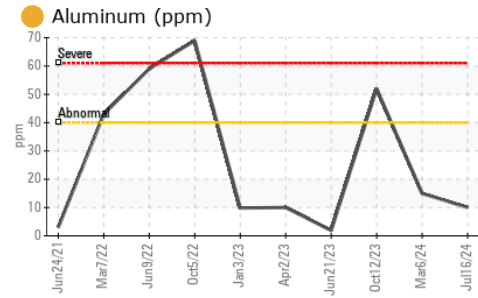
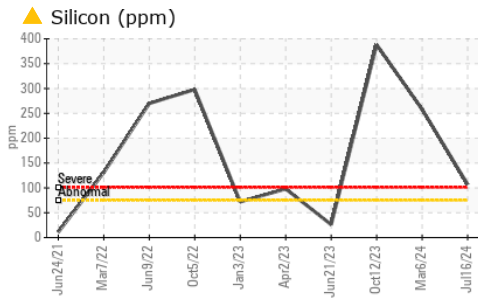
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	107	258	388
Potassium	ppm	ASTM D5185m	>20	4	2	12
Water		WC Method	>0.075	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	>0.075	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	0	2	<1
Boron	ppm	ASTM D5185m	6	9	7	14
Barium	ppm	ASTM D5185m	0	<1	0	2
Molybdenum	ppm	ASTM D5185m	0	7	7	11
Manganese	ppm	ASTM D5185m		3	8	7
Magnesium	ppm	ASTM D5185m	145	120	124	127
Calcium	ppm	ASTM D5185m	3570	3397	3305	3310
Phosphorus	ppm	ASTM D5185m	1290	919	981	1016
Zinc	ppm	ASTM D5185m	1640	1195	1175	1205
Sulfur	ppm	ASTM D5185m		4165	3424	4272
Visc @ 40°C	cSt	ASTM D445	57.0	56.1	57.5	57.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0225606 **Received** : 17 Jul 2024
Lab Number : 06239394 **Tested** : 18 Jul 2024
Unique Number : 11128228 **Diagnosed** : 19 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: PQ)

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Certificate L2367
 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)