



WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 850L 1T0850LXHPF445799
 Component
Right Outer Final Drive
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (18 GAL)

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		JR0217743	JR0208276	JR0196060
Sample Date		Client Info		29 May 2024	07 Mar 2024	21 Nov 2023
Machine Age	hrs	Client Info		1966	1471	966
Oil Age	hrs	Client Info		1966	1471	966
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	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	127	411	179
Iron	ppm	ASTM D5185m	>750	647	427	160
Chromium	ppm	ASTM D5185m	>9	4	2	1
Nickel	ppm	ASTM D5185m	>10	6	4	<1
Titanium	ppm	ASTM D5185m		6	5	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>40	70	55	9
Lead	ppm	ASTM D5185m	>15	<1	0	0
Copper	ppm	ASTM D5185m	>40	2	2	2
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

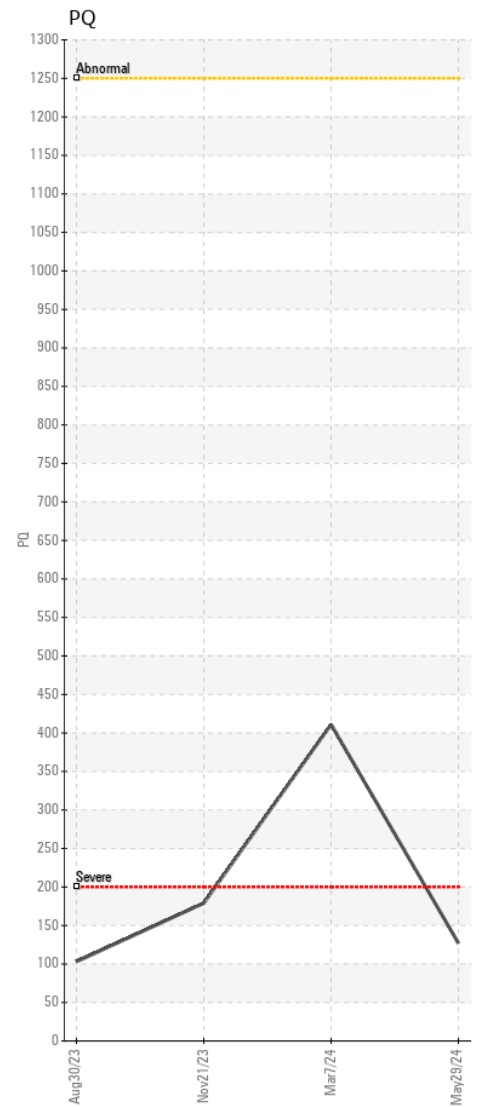
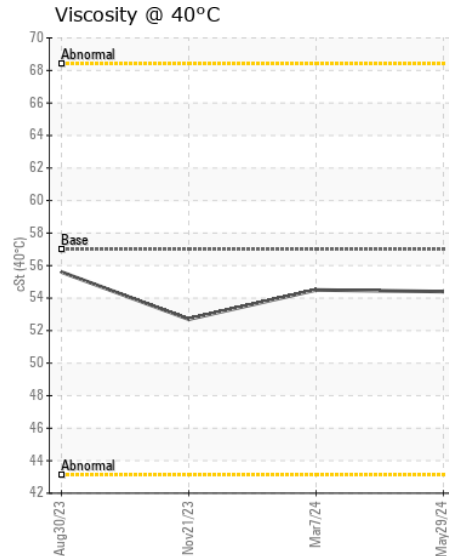
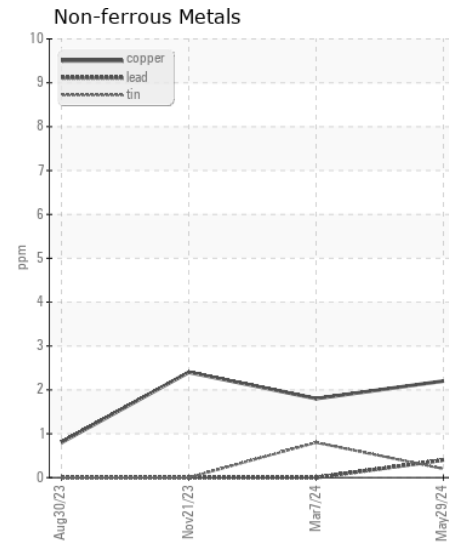
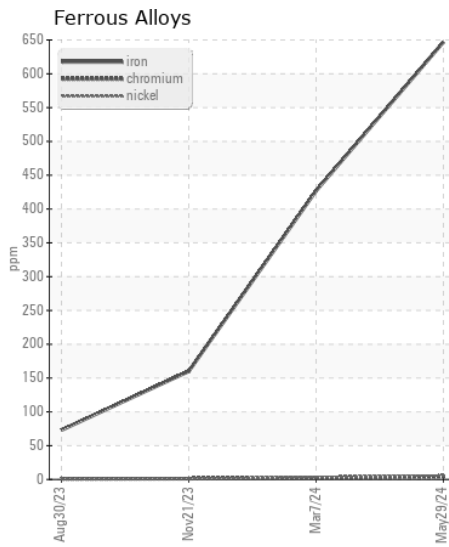
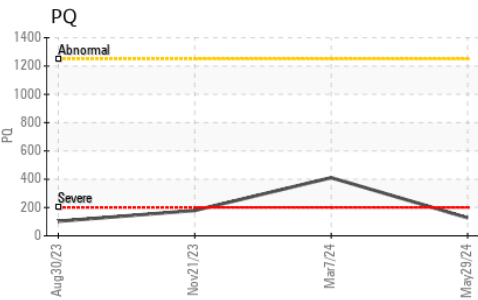
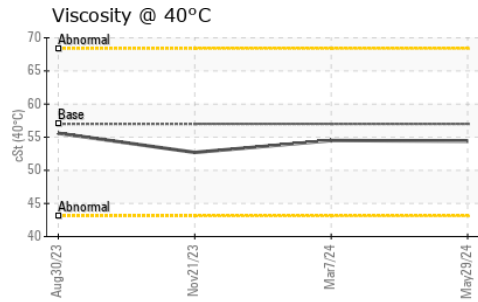
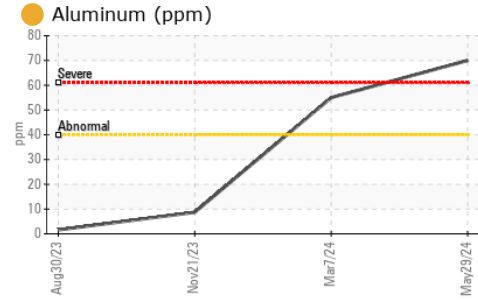
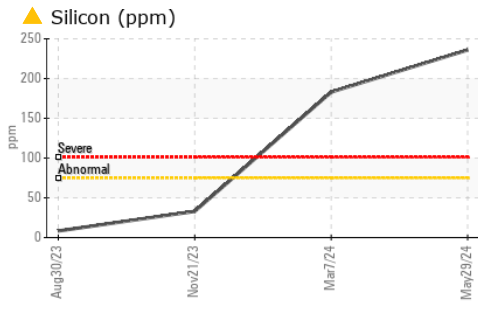
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	236	183	33
Potassium	ppm	ASTM D5185m	>20	15	11	1
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	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	7	8	4
Boron	ppm	ASTM D5185m	6	12	7	2
Barium	ppm	ASTM D5185m	0	3	0	6
Molybdenum	ppm	ASTM D5185m	0	7	4	<1
Manganese	ppm	ASTM D5185m		7	5	2
Magnesium	ppm	ASTM D5185m	145	130	125	110
Calcium	ppm	ASTM D5185m	3570	3437	3096	3369
Phosphorus	ppm	ASTM D5185m	1290	1136	987	1077
Zinc	ppm	ASTM D5185m	1640	1256	1173	1310
Sulfur	ppm	ASTM D5185m		5067	3431	3707
Visc @ 40°C	cSt	ASTM D445	57.0	54.4	54.5	52.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0217743 **Received** : 31 May 2024
Lab Number : 06196923 **Tested** : 03 Jun 2024
Unique Number : 11059046 **Diagnosed** : 03 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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)