



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta [140622]
Machine Id
JOHN DEERE 859M 1T0859MXCJF338653
Component
Right Propel Gearbox
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0041110	LEC0036932	LEC0026895
Sample Date		Client Info		28 Jun 2023	03 Feb 2023	07 Jun 2022
Machine Age	hrs	Client Info		5196	4675	3855
Oil Age	hrs	Client Info		521	820	533
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	ABNORMAL

WEAR

Aluminum ppm levels are noted. Chromium ppm levels are marginal. All other component wear rates are normal.

PQ		ASTM D8184		481	905	198
Iron	ppm	ASTM D5185m	>1250	1247	▲ 1636	494
Chromium	ppm	ASTM D5185m	>10	▲ 17	▲ 23	7
Nickel	ppm	ASTM D5185m	>10	3	6	2
Titanium	ppm	ASTM D5185m		6	8	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		● 79	● 86	● 18
Lead	ppm	ASTM D5185m		0	<1	<1
Copper	ppm	ASTM D5185m		79	25	9
Tin	ppm	ASTM D5185m		2	2	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

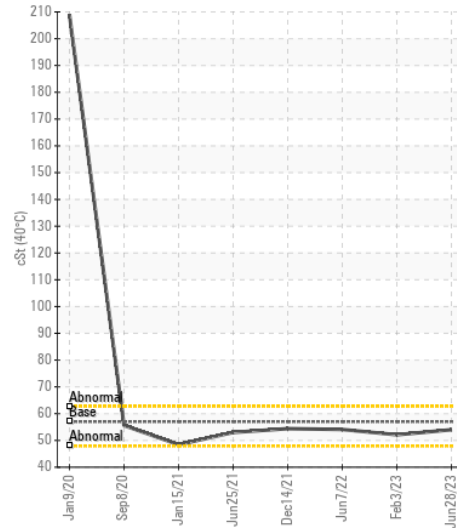
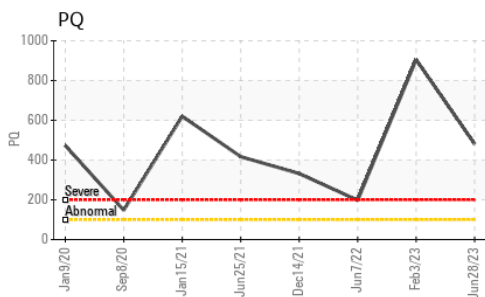
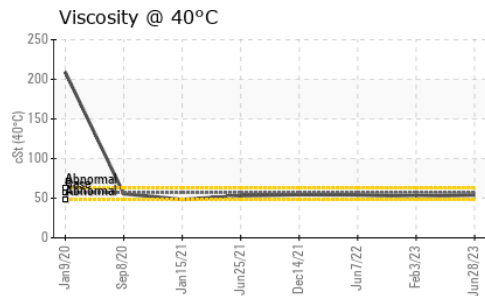
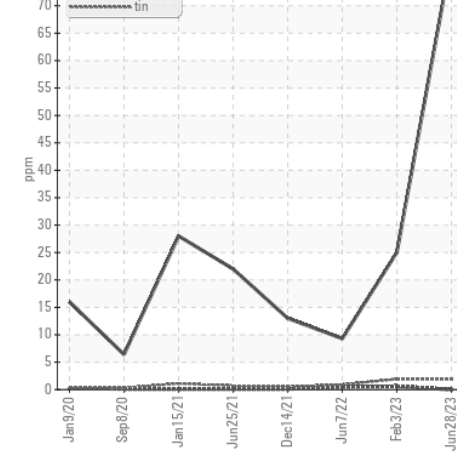
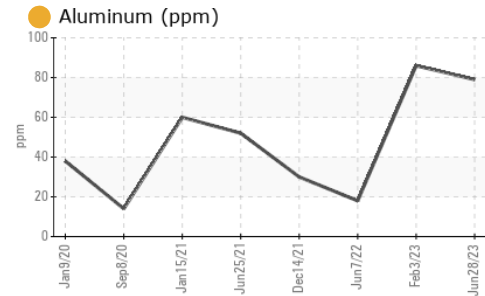
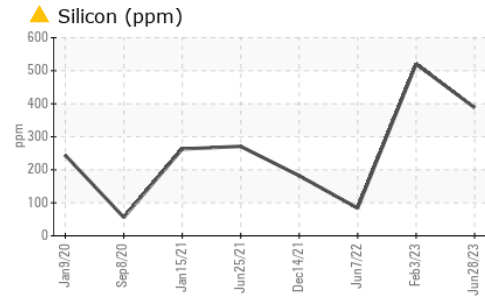
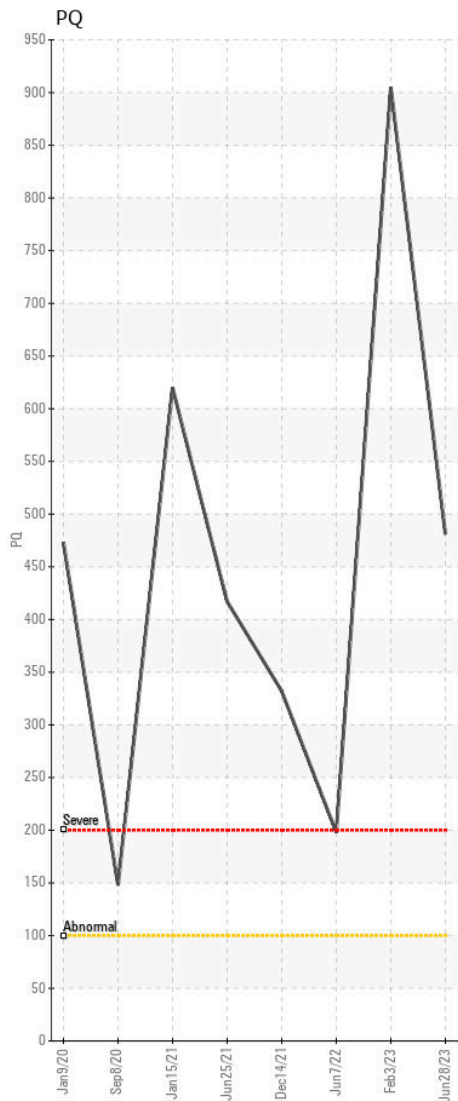
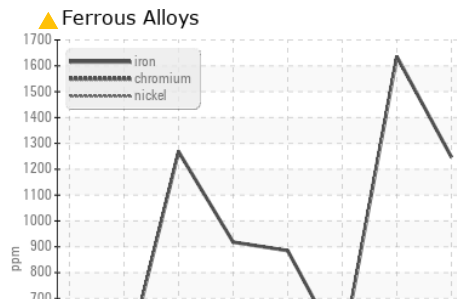
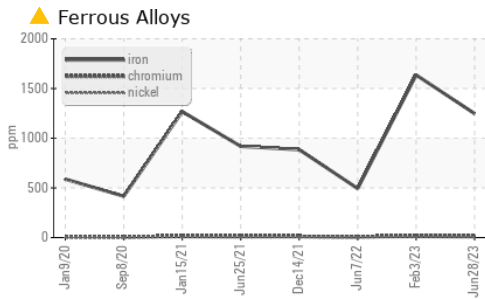
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 388	▲ 520	▲ 84
Potassium	ppm	ASTM D5185m	>20	17	19	2
Water		WC Method	>0.2	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	>0.2	NEG	0.2%	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	4	<1
Boron	ppm	ASTM D5185m	6	1	3	11
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	3	4
Manganese	ppm	ASTM D5185m		10	11	3
Magnesium	ppm	ASTM D5185m	145	92	105	115
Calcium	ppm	ASTM D5185m	3570	3134	3506	3410
Phosphorus	ppm	ASTM D5185m	1290	985	998	984
Zinc	ppm	ASTM D5185m	1640	1209	1230	1160
Sulfur	ppm	ASTM D5185m		4129	4247	3102
Visc @ 40°C	cSt	ASTM D445	57.0	54.0	52.1	54.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0041110 **Received** : 03 Jul 2023
Lab Number : 05889392 **Tested** : 05 Jul 2023
Unique Number : 10539875 **Diagnosed** : 06 Jul 2023 - Angela Borella
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)