



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta [140622]
Machine Id
JOHN DEERE 859M 1T0859MXCJF338653
Component
Pump Drive
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		LEC0041106	LEC0036898	LEC0026891
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		5196	4675	3855
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Gear wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		111	111	99
Iron	ppm	ASTM D5185m	>151	▲ 341	▲ 320	▲ 177
Chromium	ppm	ASTM D5185m	>11	3	3	2
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		1	1	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	● 3	● 4	● 4
Lead	ppm	ASTM D5185m	>51	0	<1	<1
Copper	ppm	ASTM D5185m	>51	2	2	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

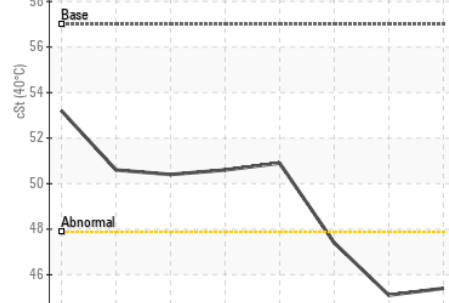
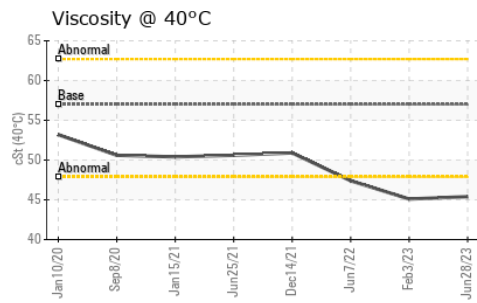
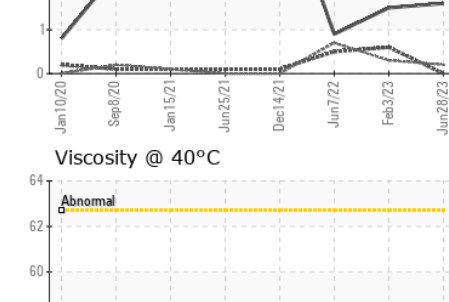
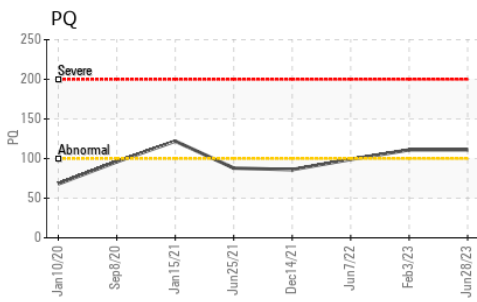
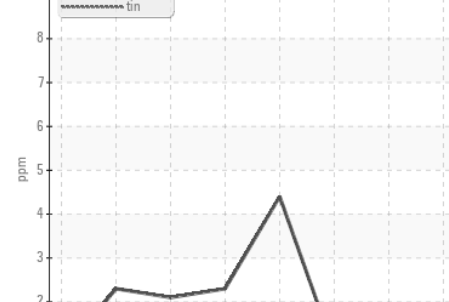
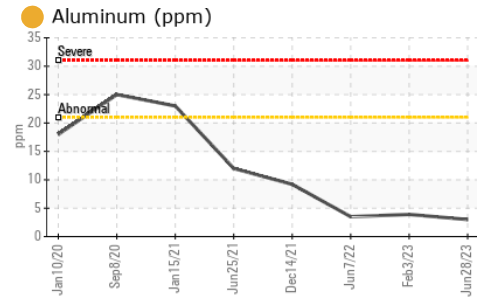
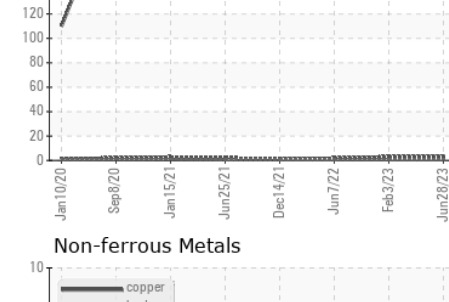
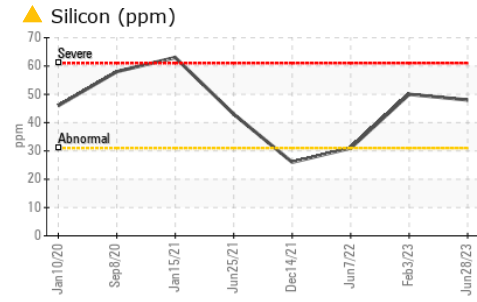
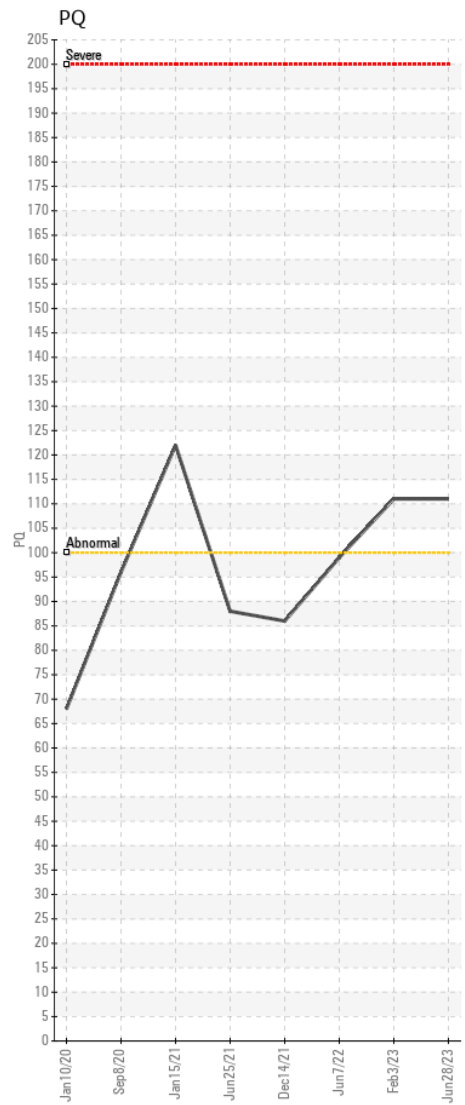
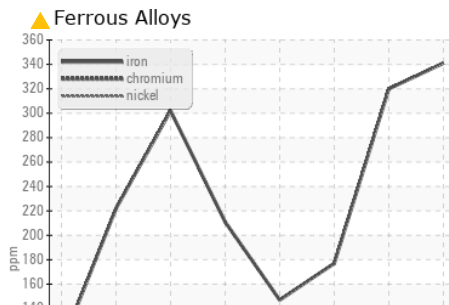
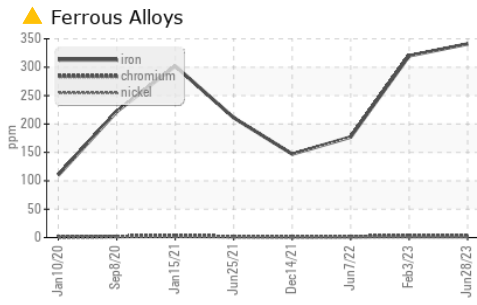
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>31	▲ 48	▲ 50	▲ 31
Potassium	ppm	ASTM D5185m	>20	8	8	6
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	8	10	8
Boron	ppm	ASTM D5185m	6	6	4	9
Barium	ppm	ASTM D5185m	0	6	6	2
Molybdenum	ppm	ASTM D5185m	0	2	2	1
Manganese	ppm	ASTM D5185m		4	4	2
Magnesium	ppm	ASTM D5185m	145	97	95	105
Calcium	ppm	ASTM D5185m	3570	3291	3320	3546
Phosphorus	ppm	ASTM D5185m	1290	1027	970	991
Zinc	ppm	ASTM D5185m	1640	1272	1195	1188
Sulfur	ppm	ASTM D5185m		4332	4095	3058
Visc @ 40°C	cSt	ASTM D445	57.0	45.4	45.1	47.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0041106 **Received** : 03 Jul 2023
Lab Number : 05889394 **Tested** : 05 Jul 2023
Unique Number : 10539877 **Diagnosed** : 06 Jul 2023 - Angela Borella
Test Package : CONST (Additional Tests: PQ)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.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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