



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
NORMAL

Area
Store 9 - Marietta [148995]

Machine Id
JOHN DEERE 859M 1T0859MXCJF338653

Component
Left Propel Gearbox

Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- 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		LEC0047543	LEC0041109	LEC0036901
Sample Date		Client Info		09 Apr 2024	28 Jun 2023	03 Feb 2023
Machine Age	hrs	Client Info		6160	5196	4675
Oil Age	hrs	Client Info		964	521	820
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	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		256	274	430
Iron	ppm	ASTM D5185m	>1250	695	657	981
Chromium	ppm	ASTM D5185m	>10	9	9	14
Nickel	ppm	ASTM D5185m	>10	2	2	3
Titanium	ppm	ASTM D5185m		2	2	4
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		36	30	37
Lead	ppm	ASTM D5185m		0	0	<1
Copper	ppm	ASTM D5185m		24	43	39
Tin	ppm	ASTM D5185m		0	1	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

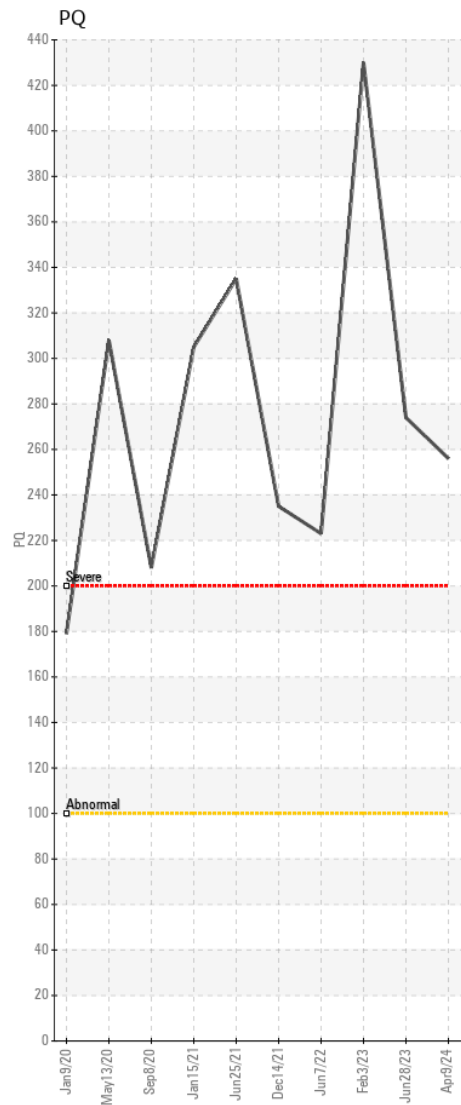
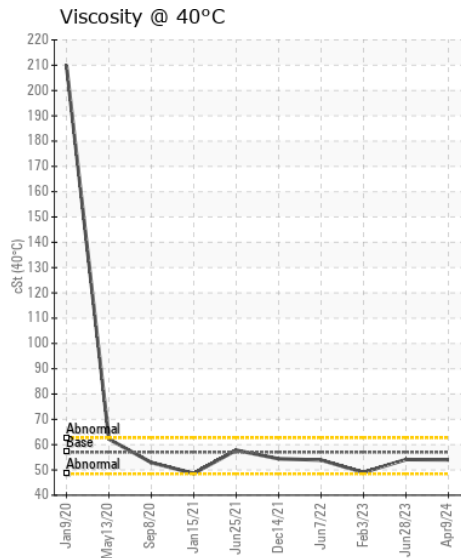
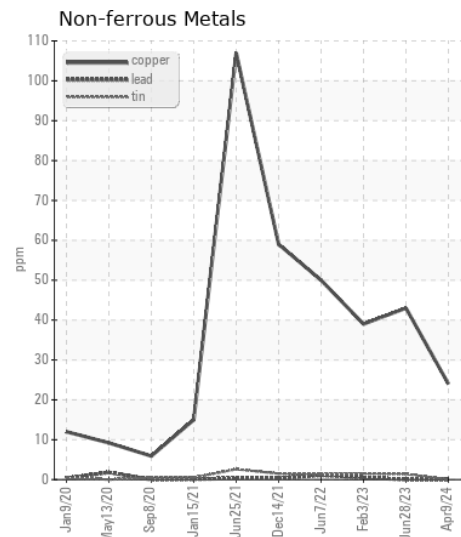
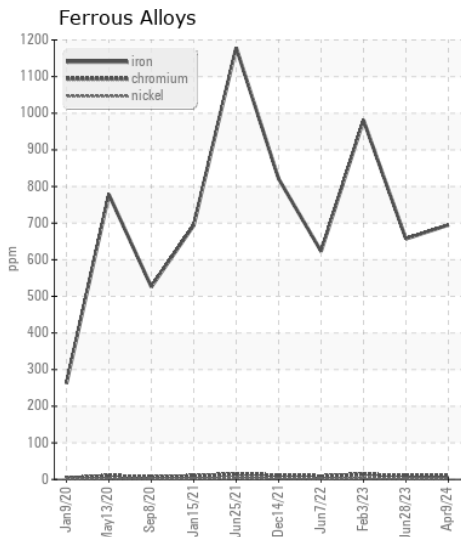
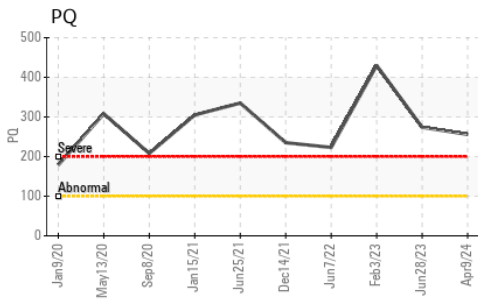
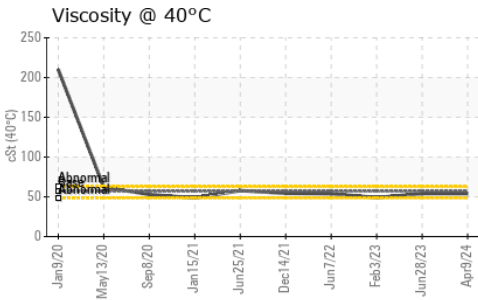
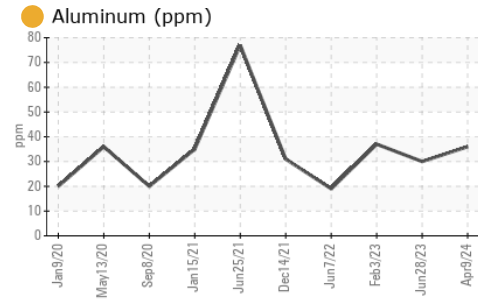
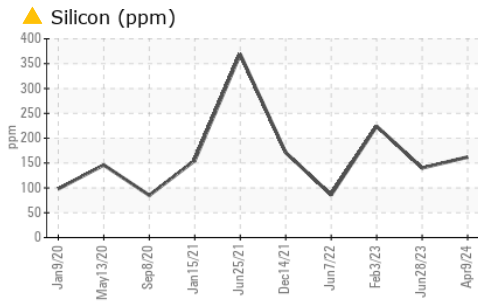
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		162	140	224
Potassium	ppm	ASTM D5185m	>20	6	7	9
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	MODER	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	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	2	2
Boron	ppm	ASTM D5185m	6	<1	0	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	1	2
Manganese	ppm	ASTM D5185m		5	5	7
Magnesium	ppm	ASTM D5185m	145	97	102	102
Calcium	ppm	ASTM D5185m	3570	3234	3545	3420
Phosphorus	ppm	ASTM D5185m	1290	993	1014	983
Zinc	ppm	ASTM D5185m	1640	1171	1253	1218
Sulfur	ppm	ASTM D5185m		3813	4157	4098
Visc @ 40°C	cSt	ASTM D445	57.0	54.0	54.1	49.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047543 **Received** : 11 Apr 2024
Lab Number : 06146172 **Tested** : 12 Apr 2024
Unique Number : 10976250 **Diagnosed** : 15 Apr 2024 - Don Baldrige
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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