



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Area
Store 1 - Cowen [RO#147626]
Machine Id
JOHN DEERE 850K 1T0850KXCEE259008
Component
Transmission
Fluid
JOHN DEERE HYDRAU (28 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0046871	LEC0041458	LECP185260
Sample Date		Client Info		09 Feb 2024	13 Jun 2023	28 Jan 2019
Machine Age	hrs	Client Info		7356	6318	4318
Oil Age	hrs	Client Info		1038	2372	0
Filter Age	hrs	Client Info		1038	2372	0
Oil Changed		Client Info		Not Changed	Changed	N/A
Filter Changed		Client Info		Not Changed	Changed	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>100	11	16	13
Iron	ppm	ASTM D5185m	>61	4	8	10
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	1
Lead	ppm	ASTM D5185m	>9	2	5	7
Copper	ppm	ASTM D5185m	>100	5	8	10
Tin	ppm	ASTM D5185m	>3	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the fluid.

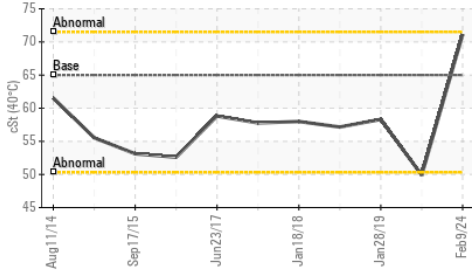
Silicon	ppm	ASTM D5185m	>21	6	4	5
Potassium	ppm	ASTM D5185m	>20	0	5	0
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG

FLUID CONDITION

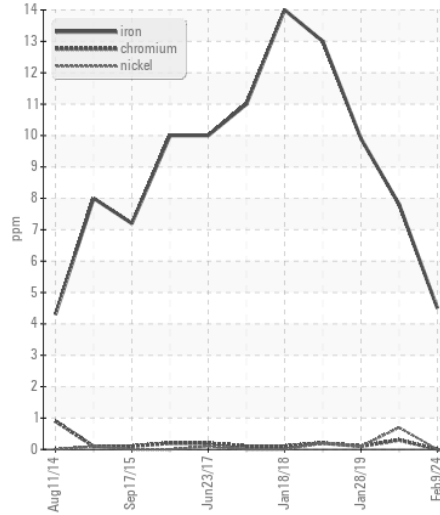
The fluid viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>30	<1	3	2
Boron	ppm	ASTM D5185m		▲ 192	33	45
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		▲ 168	33	42
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		▲ 522	172	294
Calcium	ppm	ASTM D5185m	87	▲ 1666	2556	1587
Phosphorus	ppm	ASTM D5185m	727	855	1150	898
Zinc	ppm	ASTM D5185m	900	1081	1363	1077
Sulfur	ppm	ASTM D5185m	1500	▲ 3067	4345	2596
Visc @ 40°C	cSt	ASTM D445	65	▲ 71.1	49.9	58.31

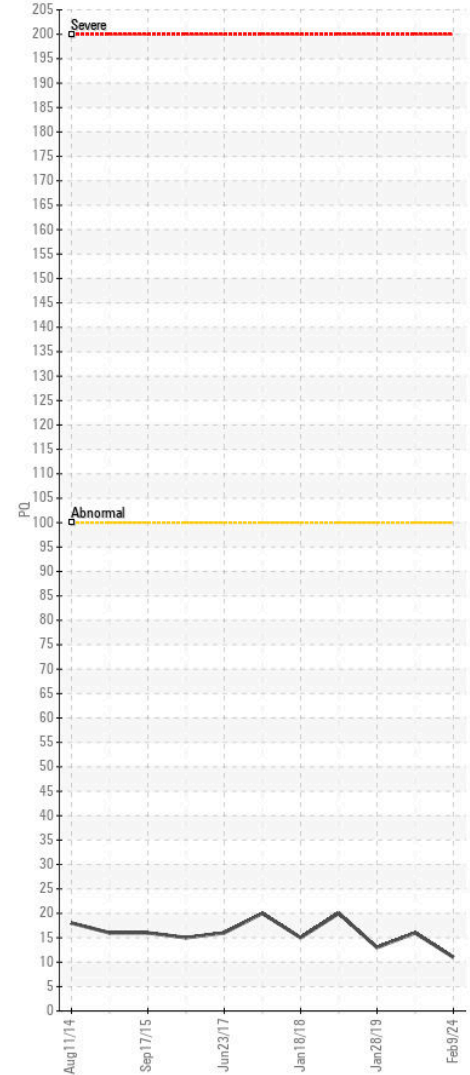
▲ Viscosity @ 40°C



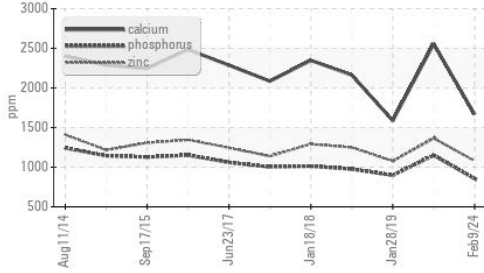
Ferrous Alloys



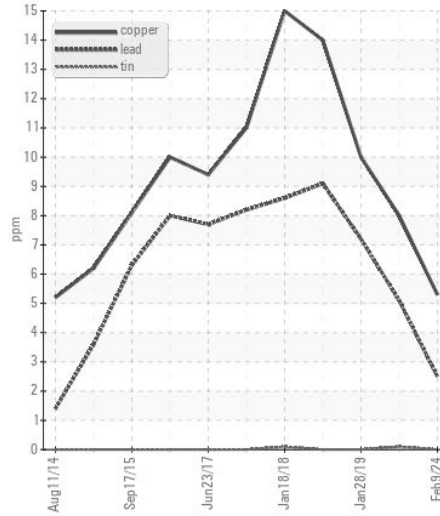
PQ



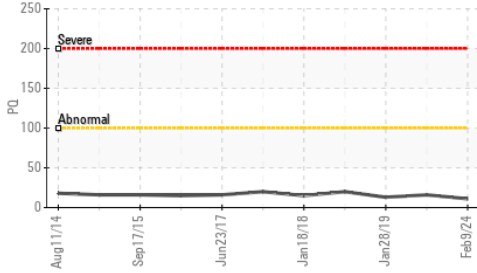
▲ Additives



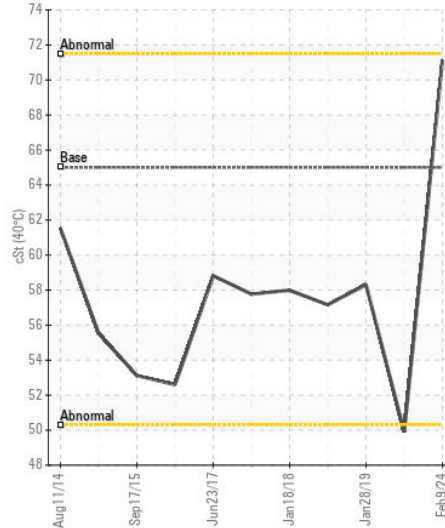
Non-ferrous Metals



PQ



▲ Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : LEC0046871
 Lab Number : 06089042
 Unique Number : 10876487
 Test Package : CONST (Additional Tests: PQ)

Received : 14 Feb 2024
 Tested : 15 Feb 2024
 Diagnosed : 15 Feb 2024 - Sean Felton

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)

T:
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