



WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
SEVERE
NORMAL



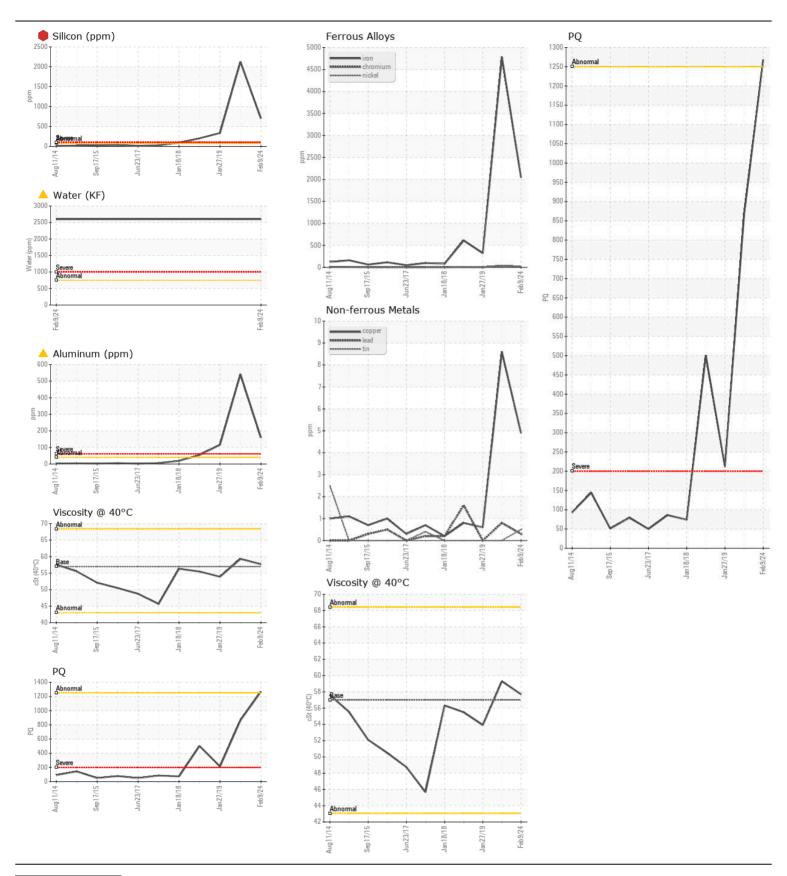
Store 1 - Cowen [RO#147626]

JOHN DEERE 850K 1T0850KXCEE259008

Left Outer Final Drive

JOHN DEERE HY-GARD HYD/TRANS (4 GAL)

JOHN DEERE HY-GARD HYD/TI	RANS (4 GA	AL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number	00	Client Info	21111071011	LEC0046868	,	LECP185307
	Sample Date		Client Info		09 Feb 2024	13 Jun 2023	27 Jan 2019
	Machine Age	hrs	Client Info		7356	6318	4318
	Oil Age	hrs	Client Info		1038	2372	372
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	SEVERE	SEVERE
WEAR							
WEAR All component wear rates are normal.	PQ		ASTM D8184		1268	864	212
	Iron	ppm	ASTM D5185m		2044	4782	322
	Chromium	ppm	ASTM D5185m		16	• 34	3
	Nickel	ppm	ASTM D5185m	>10	20	<u>^</u> 36	3
	Titanium	ppm	ASTM D5185m		12	34	7
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		159	▲ 541	▲ 116
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		5	9	<1
	Tin	ppm	ASTM D5185m	>10	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	2	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. There is a light concentration of water present in the oil.	Silicon	ppm	ASTM D5185m	>75	701	2127	335
	Potassium	ppm	ASTM D5185m		49	161	38
	Water	%	ASTM D6304	>0.075	<u>▲</u> 0.260		
	ppm Water	ppm	ASTM D6304		^ 2600		
	Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
	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	0.2%	NEG	NEG
FLUID CONDITION			40714 Devoe				
	Sodium	ppm	ASTM D5185m		6	25	6
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		7	7	1
	Barium	ppm	ASTM D5185m		<1	2	0
	Molybdenum	ppm	ASTM D5185m	0	10	8	0
	Manganese	ppm	ASTM D5185m	145	15	39	3
	Magnesium	ppm	ASTM D5185m		116	156	101
	Calcium	ppm	ASTM D5185m		3186	4149	3386
	Phosphorus	ppm	ASTM D5185m		899	1287	962
	Zinc	ppm	ASTM D5185m	1040	1178	1552	1176
	Sulfur	ppm	ASTM D5185m	57.0	3250 57.7	5247	3033
	Visc @ 40°C	cSt	ASTM D445	07.0	57.7	59.3	53.91





Certificate L2367

Laboratory

Sample No. Lab Number : 06089046

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0046868

Received **Tested**

Unique Number : 10876491 Diagnosed Test Package: CONST (Additional Tests: KF, PQ)

: 14 Feb 2024

: 15 Feb 2024

: 15 Feb 2024 - Sean Felton

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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