



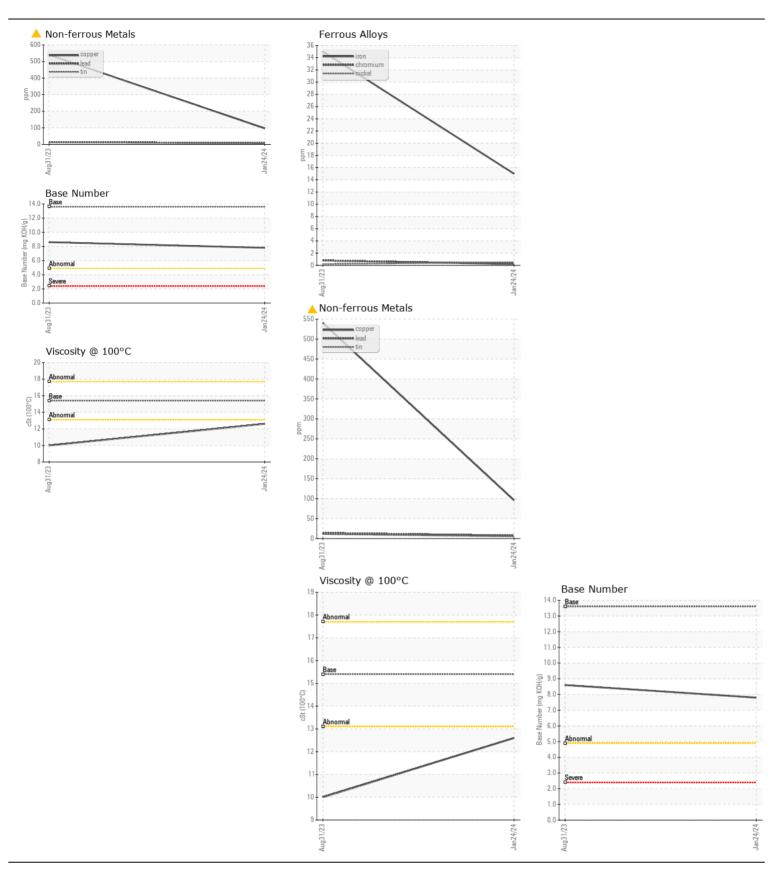
WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL NORMAL**

Store 2 - Beaver [RO#146826]

JOHN DEERE 460P 1DW460PAEPFB06250

Component Diesel Engine

RECOMMENDATION Test						
	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number	r	Client Info		LEC0046922	LEC0042616	
Oil and filter change at the time of sampling has been noted. No		Client Info		24 Jan 2024	31 Aug 2023	
corrective action is recommended at this time. He sample at the next	hrs	Client Info		1148	577	
service interval to monitor. Oil Age	hrs	Client Info		571	577	
Filter Age	hrs	Client Info		571	577	
Oil Changed		Client Info		Changed	Changed	
Filter Change	t	Client Info		Changed	Changed	
Sample Status	5			ABNORMAL	ABNORMAL	
WEAR	ppm	ASTM D5185m		15	35	
The copper level has decreased, but is still abnormal. In the absence	ppm	ASTM D5185m		<1	<1	
of other significant wear metals, suspect copper due to sources other	ppm	ASTM D5185m	>5	<1	<1	
than wear (i.e. cooling core). All other metal levels are typical for a new	ppm	ASTM D5185m		0	0	
component breaking in.	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m		6	4	
Lead	ppm	ASTM D5185m		7	14	
Copper	ppm	ASTM D5185m		<u> </u>	<u></u> 540	
Tin	ppm	ASTM D5185m	>4	5	11	
Vanadium	ppm	ASTM D5185m		<1	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	ppm	ASTM D5185m	>!20	6	13	
Potassium	ppm	ASTM D5185m	>20	<1	3	
There is no indication of any contamination in the oil.	%	ASTM D3524		<1.0	<1.0	
Water		WC Method	>0.21	NEG	NEG	
Glycol		WC Method		NEG	NEG	
Soot %	%	*ASTM D7844	>3	0.2	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	22.5	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	r scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION Sodium	ppm	ASTM D5185m	>31	4	9	
Boron	ppm	ASTM D5185m		202	176	
The BN result indicates that there is suitable alkalinity remaining in the	ppm	ASTM D5185m		<1	<1	
oil. The condition of the oil is suitable for further service. Molybdenum	ppm	ASTM D5185m		232	238	
Manganese	ppm	ASTM D5185m		2	11	
Magnesium	ppm	ASTM D5185m		815	829	
Calcium	ppm	ASTM D5185m		1318	1358	
Phosphorus	ppm	ASTM D5185m		896	856	
Zinc	ppm	ASTM D5185m		1100	1050	
	ppm	ASTM D5185m		2884	3330	
Sulfur						
Sulfur Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	17.4	
		*ASTM D7414 ASTM D2896		16.0 7.8	17.4 8.6	







Laboratory Sample No. Lab Number

Unique Number

: LEC0046922 : 06074337 : 10856428

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

: 31 Jan 2024 Diagnostician : Sean Felton

: 30 Jan 2024

Test Package: CONST (Additional Tests: FuelDilution, TBN) 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)

LESLIE EQUIPMENT COMPANY

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Submitted By: STORE 2 - BEAVER - CASEY TONEY