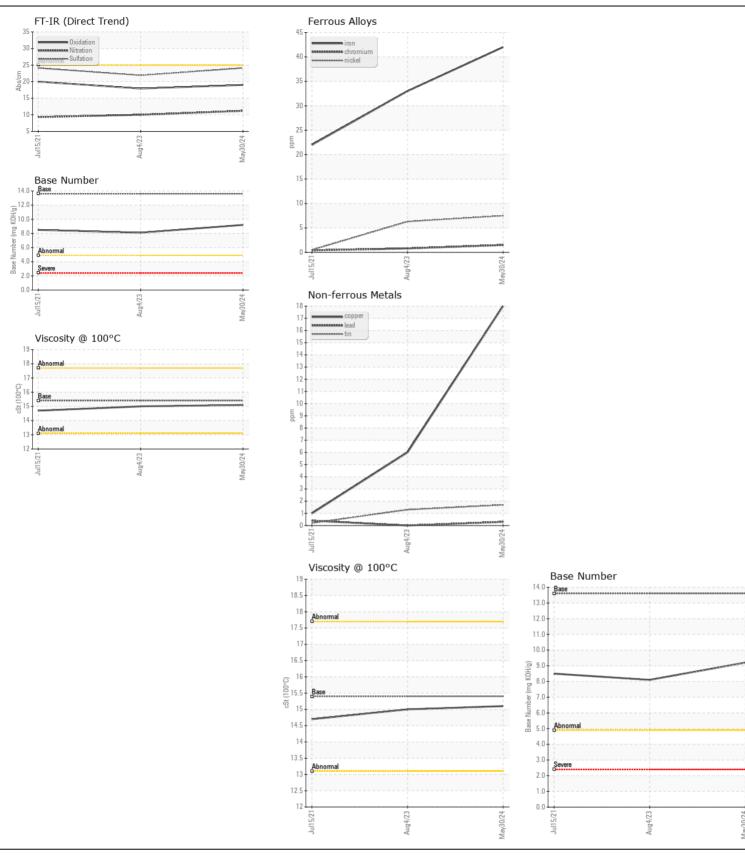
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

[16W16336]

JOHN DEERE 850K 1T0850KXKCE220162

Diesel Engine

RECOMMENDATION Test UOM Method Limit/Abn Current	History1	History2
Sample Number Client Info JR020710		JR0094435
Resample at the next service interval to monitor. (Customer Sample Sample Date Client Info 30 May 202		15 Jul 2021
Comment: 16W16336) Machine Age hrs Client Info 8301	7750	5939
Oil Age hrs Client Info 551	500	0
Filter Age hrs Client Info 551	500	0
Oil Changed Client Info Changed	Changed	Not Changd
Filter Changed Client Info Changed	Changed	Not Changd
Sample Status NORMA	NORMAL	NORMAL
WEAR Iron ppm ASTM D5185m >51 42	33	22
Chromium ppm ASTM D5185m >11 2	<1	<1
All component wear rates are normal. Nickel ppm ASTM D5185m >5 8	6	<1
Titanium ppm ASTM D5185m <1	0	<1
Silver ppm ASTM D5185m >3 0	<1	0
Aluminum ppm ASTM D5185m >31 4	3	3
Lead ppm ASTM D5185m >26 <1	0	<1
Copper ppm ASTM D5185m >26 18	6	1
Tin ppm ASTM D5185m >4 2	1	<1
Vanadium ppm ASTM D5185m <1	0	<1
White Metal scalar *Visual NONE NONE	NONE	NONE
Yellow Metal scalar *Visual NONE NONE	NONE	NONE
CONTAMINATION Silicon ppm ASTM D5185m >22 7	5	8
Potassium ppm ASTM D5185m >20 4	7	3
There is no indication of any contamination in the oil. Fuel WC Method >2.1 <1.0	<1.0	<1.0
Water WC Method >0.21 NEG	NEG	NEG
Glycol WC Method NEG	NEG	NEG
Soot %	1.2	0.3
Nitration Abs/cm *ASTM D7624 >20 11.2	10.0	9.3
Sulfation Abs/.1mm *ASTM D7415 >30 24.1	21.9	24.1
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 NORM	L NORML	NORML
Odor scalar *Visual NORML NORM	L NORML	NORML
Emulsified Water scalar *Visual >0.21 NEG	NEG	NEG
FLUID CONDITION Sodium ppm ASTM D5185m >31 3	0	6
TEOID CONDITION	60	267
Boron ppm ASTM D5185m 98		<1
The BN result indicates that there is suitable alkalinity remaining in the Boron ppm ASTM D5185m 98 Barium ppm ASTM D5185m 0	0	
The BN result indicates that there is suitable alkalinity remaining in the ail. The condition of the ail is suitable for further sorvice. Boron ppm ASTM D5185m 98 Barium ppm ASTM D5185m 0	0 31	76
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Boron ppm ASTM D5185m 98 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 151	31	76 <1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Boron ppm ASTM D5185m 98 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 151 Manganese ppm ASTM D5185m <1	31 <1	<1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 151 Manganese ppm ASTM D5185m <1 Manganesium ppm ASTM D5185m 572	31 <1 208	<1 388
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 151 Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 572 Calcium ppm ASTM D5185m 1768	31 <1 208 2114	<1 388 1629
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 151 Manganese ppm ASTM D5185m 151 Manganese ppm ASTM D5185m 572 Calcium ppm ASTM D5185m 1768 Phosphorus ppm ASTM D5185m 1768	31 <1 208 2114 943	<1 388 1629 903
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The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 151 Manganese ppm ASTM D5185m 151 Manganese ppm ASTM D5185m 572 Calcium ppm ASTM D5185m 1768 Phosphorus ppm ASTM D5185m 1768	31 <1 208 2114 943	<1 388 1629 903
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Boron ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 151 Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 572 Calcium ppm ASTM D5185m 1768 Phosphorus ppm ASTM D5185m 1052 Zinc ppm ASTM D5185m 1273 Sulfur ppm ASTM D5185m 3410	31 <1 208 2114 943 1184 3221	<1 388 1629 903 987 2584







Certificate L2367

Laboratory Sample No.

Lab Number : 06197482

Unique Number : 11059605

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0207106

Received **Tested**

Diagnosed Test Package : CONST (Additional Tests: TBN)

: 04 Jun 2024 : 04 Jun 2024 - Don Baldridge

: 03 Jun 2024

JRE - CASTLE HAYNE 113 CROWATAN ROAD CASTLE HAYNE, NC US 28429-5819

Contact: WILMINGTON SHOP todd.simmons@jamesriverequipment.com;canastasio@wearcheck.com;canastasio@we

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.

T: (910)675-9211 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: