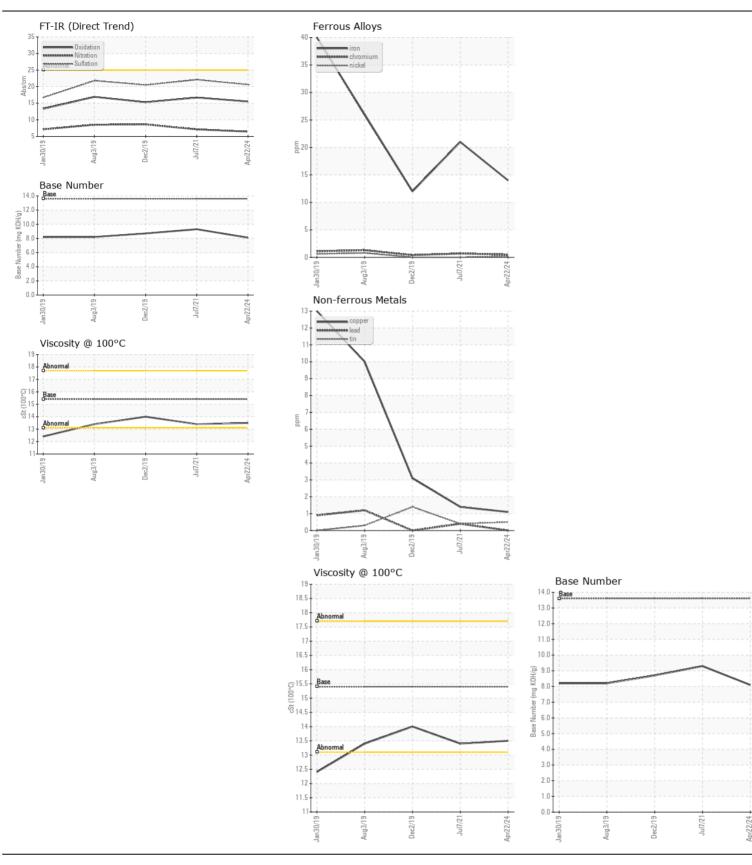


**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

Machine Id

JLG TH-07
Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0049415	LEC0001169	LEC001067
	Sample Date		Client Info		22 Apr 2024	07 Jul 2021	02 Dec 201
	Machine Age	hrs	Client Info		5109	2793	1923
	Oil Age	hrs	Client Info		500	500	496
	Filter Age	hrs	Client Info		500	500	496
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	14	21	12
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	7	6	6
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	1	1	3
	Tin	ppm	ASTM D5185m	>15	<1	<1	1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>120	9	5	7
SONTAIIINATION	Potassium	ppm	ASTM D5185m	-	2	<1	3
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		- <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 U.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	7.1	8.6
	Sulfation	Abs/.1mm	*ASTM D7415		20.6	22.1	20.5
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	3
I LOID CONDITION	Boron	ppm	ASTM D5185m		432	430	229
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	<1
	Molybdenum	ppm	ASTM D5185m		127	141	253
	Manganese	ppm	ASTM D5185m		0	<1	1
	Magnesium	ppm	ASTM D5185m		515	558	797
	Calcium	ppm	ASTM D5185m		1341	1411	1426
	Phosphorus	ppm	ASTM D5185m		873	708	880
	Zinc	ppm	ASTM D5185m		1028	840	976
	Sulfur	ppm	ASTM D5185m		3208	2346	850
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	16.7	15.3
	Base Number (BN)		ASTM D2896		8.1	9.3	8.7
	Dasc Hallibel (DIV)	my Romy	AO HWI DZ030	10.0	0.1	0.0	0.7







Laboratory Sample No.

Lab Number : 06178504

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0049415

Received **Tested** 

Unique Number : 11029830 Diagnosed

: 16 May 2024 - Sean Felton Test Package : CONST (Additional Tests: TBN)

: 14 May 2024

: 15 May 2024

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)

NITRO, WV US 25143

Contact: KELLY TUCKER