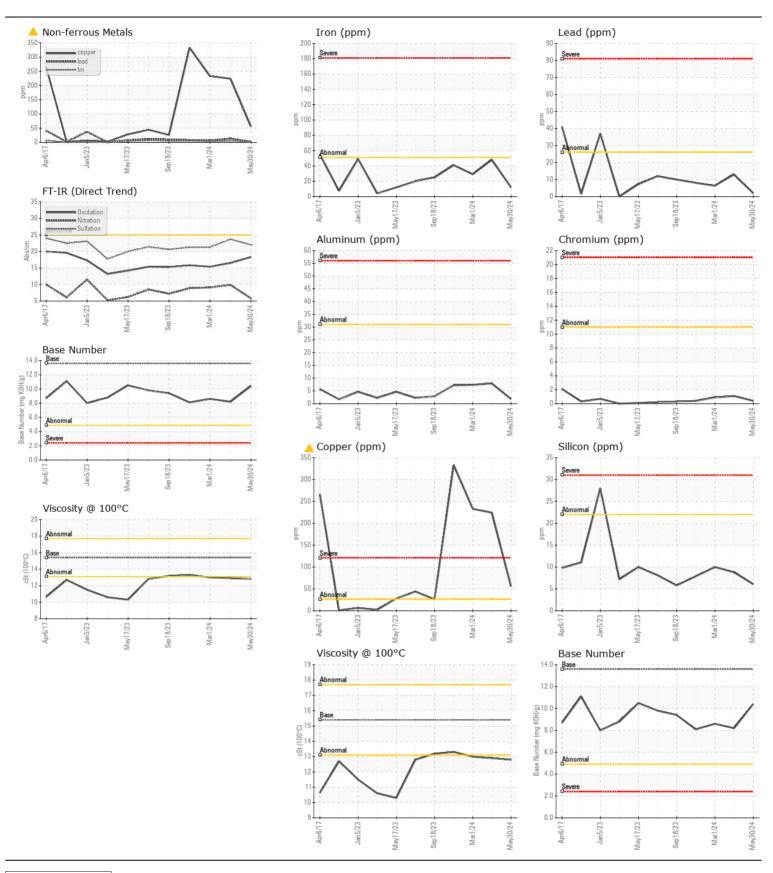
WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL NORMAL**

Rockydale Quarries

JOHN DEERE 944K 1DW944KXVGE677118

Diesel Engine

	Toot	11044	Motherd	Limit/Ales	C	I lioto 4	Lliotamic
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number Sample Date		Client Info		JR0126033 30 May 2024	JR0126029	JR007452 01 Mar 202
	Machine Age	hrs	Client Info		11750	09 May 2024 11649	11107
	Oil Age		Client Info		11649	11106	1
	Filter Age	hrs hrs	Client Info		0	11106	0
	Oil Changed	1115	Client Info		N/A	Changed	N/A
	Filter Changed		Client Info		N/A	Changed	N/A
	Sample Status		Oliciti IIIIO		ABNORMAL	ABNORMAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>51	12	48	29
The copper level has decreased, but is still abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	1	<1
	Nickel	ppm	ASTM D5185m	>5	2	<u> </u>	7
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>31	2	8	7
	Lead	ppm	ASTM D5185m	>26	2	13	6
	Copper	ppm	ASTM D5185m		△ 56	<u>^</u> 224	<u>^</u> 233
	Tin	ppm	ASTM D5185m	>4	1	5	3
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	6	9	10
SONTAMINATION	Potassium	ppm	ASTM D5185m		2	2	4
There is no indication of any contamination in the oil.	Fuel	ρρ	WC Method	>2.1	- <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	1.4	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	5.8	9.9	9.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	23.7	21.3
	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	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	\31	2	4	2
	Boron	ppm	ASTM D5185m	- 01	75	107	182
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		0	<1	0
	Molybdenum	ppm	ASTM D5185m		75	243	240
	Manganese	ppm	ASTM D5185m		<1	2	1
	Magnesium	ppm	ASTM D5185m		539	834	756
	Calcium	ppm	ASTM D5185m		1609	1681	1509
	Phosphorus	ppm	ASTM D5185m		999	985	1023
	Zinc	ppm	ASTM D5185m		1134	1228	1127
	Sulfur	ppm	ASTM D5185m		3277	3739	3508
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	16.5	15.4
	Base Number (BN)	mg KOH/g			10.4	8.2	8.6
	Visc @ 100°C	cSt	ASTM D445	15 /	12.8	12.9	13.0





Certificate L2367

Report Id: JAMSALJR [WUSCAR] 06197469 (Generated: 06/04/2024 15:53:05) Rev: 1

Laboratory Sample No. Lab Number

: JR0126033 : 06197469

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

Received Tested Unique Number : 11059592

Diagnosed Test Package: MOBCE (Additional Tests: TBN)

: 04 Jun 2024 : 04 Jun 2024 - Don Baldridge

: 03 Jun 2024

JRE - SALEM 3902 W. MAIN STREET SALEM, VA

US 24153 Contact: BRETT LAWRENCE brett.lawrence@jamesriverequipment.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.

T: F: (540)380-5547 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)