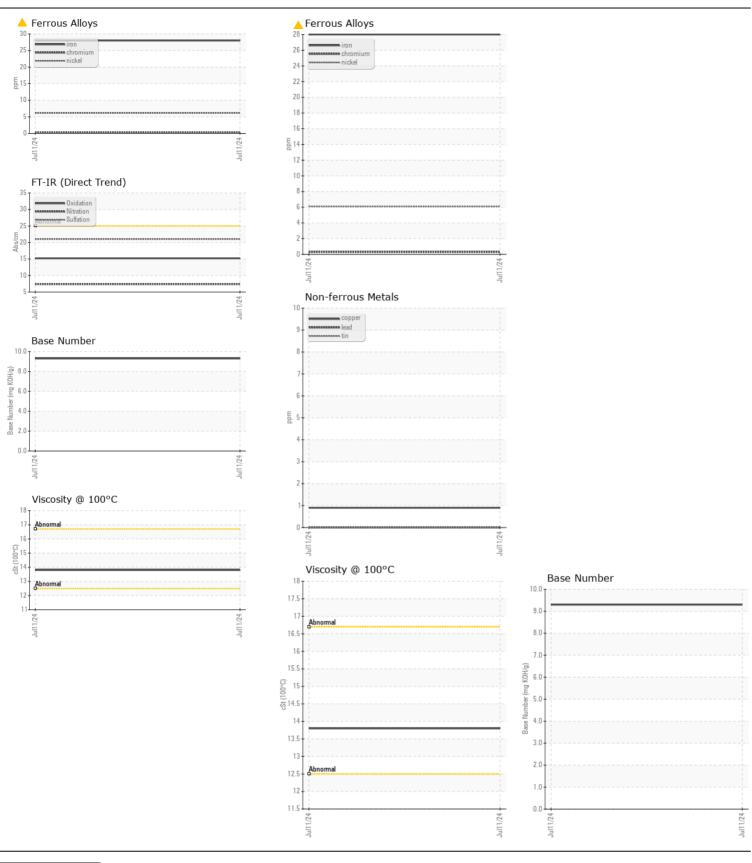
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL** NORMAL **NORMAL**

Machine Id

NO INFO ON SIF/BOTTLE

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMMENDATION	Sample Number	00.01	Client Info	Ellillo 7 toll	JR0222168	-	
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		11 Jul 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	28		
The nickel level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>4	<u> </u>		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm		>3	0		
	Aluminum	ppm	ASTM D5185m	>20	3		
	Lead	ppm	ASTM D5185m	>40	0		
	Copper	ppm	ASTM D5185m		<1		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7		
	Potassium	ppm	ASTM D5185m		<1		
There is no indication of any contamination in the oil.	Fuel	PP	WC Method	>5	<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	7.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		202		
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		235		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		801		
	Calcium	ppm	ASTM D5185m		1557		
	Phosphorus	ppm	ASTM D5185m		930		
	Zinc	ppm	ASTM D5185m		1083		
	Sulfur	ppm	ASTM D5185m		3419		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2		
	Base Number (BN)		ASTM D2896		9.3		
	Visc @ 100°C	cSt	ASTM D445		13.8		





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0222168 Lab Number : 06234242

Received **Tested** Unique Number : 11123076

: 11 Jul 2024 : 12 Jul 2024 Diagnosed Test Package : CONST (Additional Tests: TBN)

: 14 Jul 2024 - Don Baldridge

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC

US 27529 Contact: RALEIGH SHOP sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.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: (919)614-2260 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)779-5432