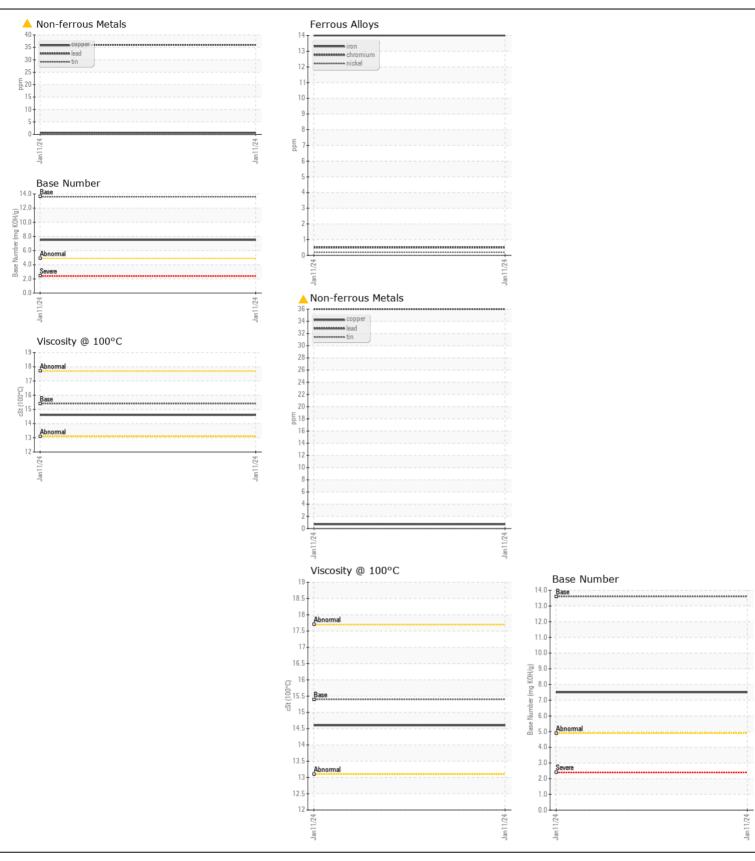
**WEAR CONTAMINATION FLUID CONDITION**  **ABNORMAL NORMAL NORMAL** 

## INTERNATIONAL G85 C310912 (S/N 8231E-5798237)

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number	33.01	Client Info	2	JR0199269		
	Sample Date		Client Info		11 Jan 2024		
	Machine Age	hrs	Client Info		18231		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed	0	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Onoric iiiio		ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		14		
The lead level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>5	<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		<b>△</b> 36		
	Copper	ppm	ASTM D5185m		<1		
	Tin	ppm	ASTM D5185m	>4	0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	6		
OUTTAININATION	Potassium	ppm	ASTM D5185m		<1		
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method	>2.1	<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	70.21	NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	10.7		
	Sulfation	Abs/.1mm	*ASTM D7415		24.0		
	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		*Visual	>0.21	NEG		
THE CONDITION							
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Sodium	ppm	ASTM D5185m	>31	1		
	Boron	ppm	ASTM D5185m		141		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		203		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		762		
	Calcium	ppm	ASTM D5185m		1716		
	Phosphorus	ppm	ASTM D5185m		964		
	Zinc	ppm	ASTM D5185m		1204		
	Sulfur	ppm	ASTM D5185m		3141		
	Oxidation	Abs/.1mm	*ASTM D7414		23.2		
	Base Number (BN)				7.5		
	Visc @ 100°C	cSt	ASTM D445	15.4	14.6		







Laboratory Sample No. Lab Number **Unique Number** 

: JR0199269 : 06060035 : 10831417

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

Test Package : CONST ( Additional Tests: TBN )

: 16 Jan 2024 Diagnostician : Don Baldridge

: 12 Jan 2024

Contact: DON VEST dvest@jamesriverequipment.com T: (703)631-8500

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)

F: (703)631-4715

JRE - MANASSAS PARK

9107 OWENS DRIVE

MANASSAS PARK, VA

US 20111