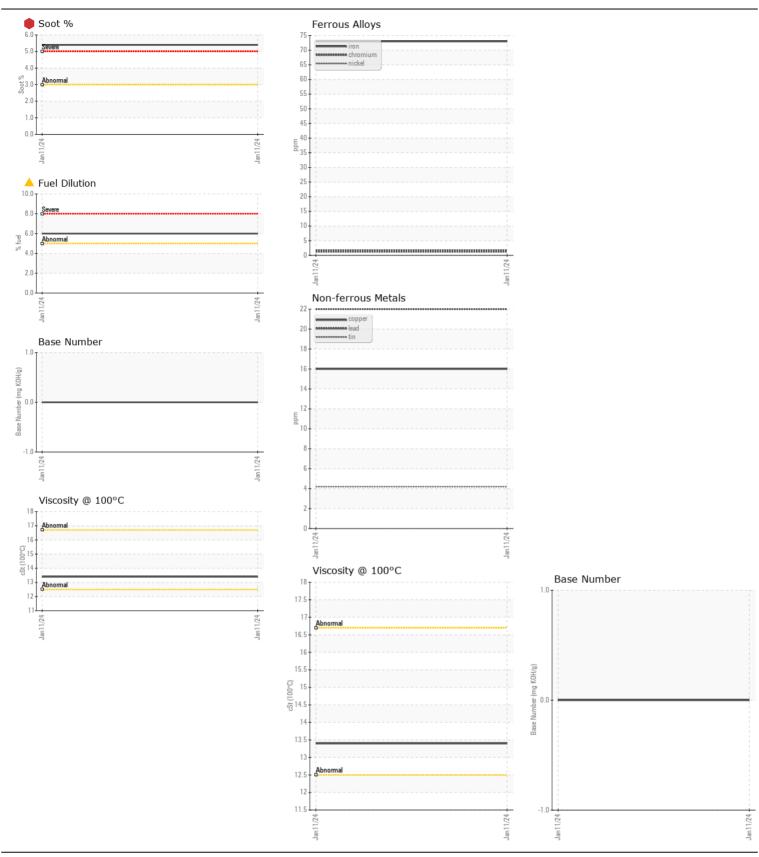
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE NORMAL

Machine Id

NOT GIVEN JR0198794 (S/N NO INFO O	N SIF/BUI	ILE))				
Diesel Engine							
not provided} (GAL)							
RECOMMENDATION	Toot	шом	Mathad	Limit/Alan	Current	Lliatom	Lliatanı
ECOMMENDATION	Test	UOM	Method	Limit/Abn	JR0198794	History1	History2
We advise that you check for faulty combustion, plugged air filters, or aftercoolers. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.	Sample Number		Client Info				
	Sample Date	hro	Client Info		11 Jan 2024		
	Machine Age Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed	hrs	Client Info				
					N/A N/A		
	Filter Changed Sample Status		Client Info		SEVERE		
WEAR All component wear rates are normal. Increase in component wear rates noted.	Iron	ppm	ASTM D5185m	>100	73		
	Chromium	ppm	ASTM D5185m	>20	1		
	Nickel	ppm	ASTM D5185m	>4	2		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>20	7		
	Lead	ppm	ASTM D5185m	>40	22		
	Copper	ppm	ASTM D5185m	>330	16		
	Tin	ppm	ASTM D5185m	>15	4		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTARINATION	0'''		AOTM DE LOS	05			
CONTAMINATION There is an abnormal amount of solids and carbon present in the oil. There is a moderate amount of fuel present in the oil.	Silicon	ppm	ASTM D5185m		5		
	Potassium	ppm	ASTM D5185m		1		
	Fuel	%			6.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		5.4		
	Nitration	Abs/cm	*ASTM D7624	>20	15.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	34.9		
	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		
LUID CONDITION	Sodium	nnm	ASTM D5185m		5		
LOID CONDITION	Boron	ppm	ASTM D5185m		12		
The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm			159		
	•	ppm	ASTM D5185m ASTM D5185m		2		
	Manganese	ppm					
	Magnesium	ppm	ASTM D5185m		774		
	Calcium	ppm	ASTM D5185m		1129		
	Phosphorus	ppm	ASTM D5185m		788		
	Zinc	ppm	ASTM D5185m		1042		
	Sulfur	ppm	ASTM D5185m	0.5	2683		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.4		
	Base Number (BN)	mg KOH/g	ASTM D2896		0.0		
	Visc @ 100°C	cSt	ASTM D445		13.4		





Report Id: JAMCHA [WUSCAR] 06059117 (Generated: 01/30/2024 07:53:11) Rev: 1

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

: JR0198794 : 06059117 : 10830499

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

: 29 Jan 2024 Diagnostician : Doug Bogart

: 12 Jan 2024

JRE - CHARLOTTE 9550 STATESVILLE ROAD

CHARLOTTE, NC US 28269 Contact: CHARLOTTE SHOP

Test Package: CONST (Additional Tests: FUELDILUTION, PercentFuel, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369. myoung@jamesriverequipment.com

T: (704)597-0211 F: (704)596-6198 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)