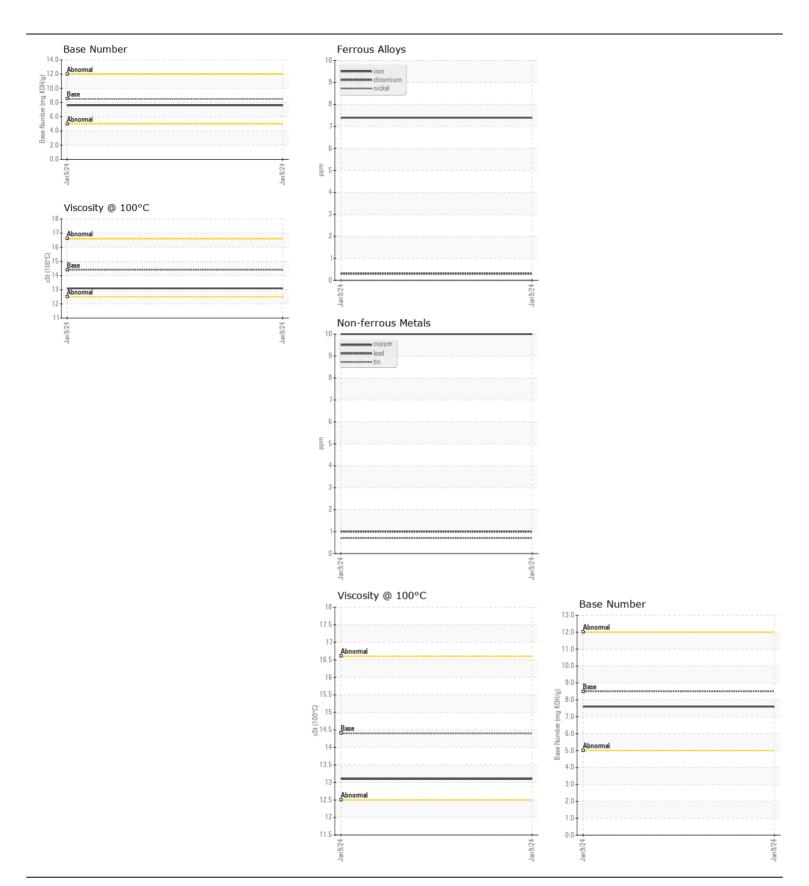
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

## HAMM HC 70I H2870137

Component Diesel Engine

DIESEL ENGINE OIL SAE 40 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.	Sample Number	00	Client Info		JR0184687		
	Sample Date		Client Info		09 Jan 2024		
	Machine Age	hrs	Client Info		41		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	7		
	Chromium	ppm	ASTM D5185m	>20	<1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m	>40	1		
	Copper	ppm	ASTM D5185m	>330	10		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	13		
	Potassium	ppm	ASTM D5185m	>20	2		
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.1		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.1		
	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  The DN coult indicate the Alberta is suitable all all indicates in the	Sodium	ppm	ASTM D5185m	>216	4		
	Boron	ppm	ASTM D5185m	250	77		
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	10	3		
	Molybdenum	ppm	ASTM D5185m	100	76		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m	450	58		
	Calcium	ppm	ASTM D5185m	3000	2164		
	Phosphorus	ppm	ASTM D5185m	1150	1005		
	Zinc	ppm	ASTM D5185m	1350	1169		
	Sulfur	ppm	ASTM D5185m	4250	4305		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	12.3		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.6		
	Visc @ 100°C	cSt	ASTM D445	111	13.1		







Laboratory Sample No. Lab Number Unique Number

: JR0184687 : 06056519 : 10822468

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 10 Jan 2024 Diagnosed

: 11 Jan 2024 Diagnostician : Wes Davis

Test Package : CONST ( Additional Tests: TBN )

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. 245 YARDMASTER COURT STEPHENSON, VA US 22656-1761

JRE - STEPHENSON

Contact: PHIL DAUGHERTY

pdaugherty@jamesriverequipment.com T: x:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (540)693-2588 Contact/Location: PHIL DAUGHERTY - JAMWIN