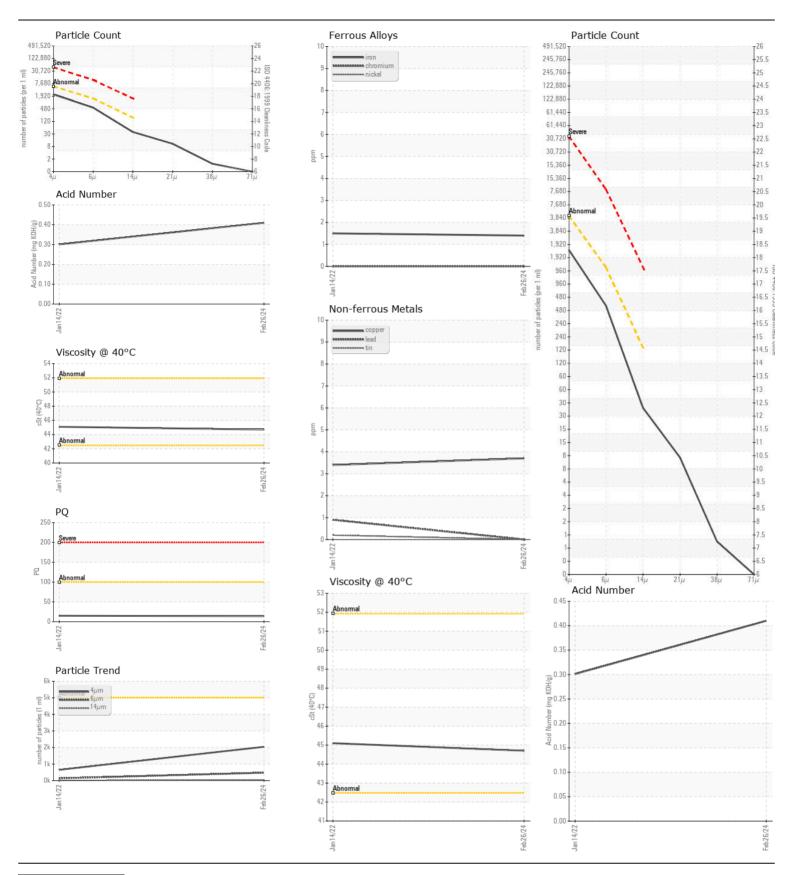
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

## HAMM H14I H2340685

Component Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0194919	JR0117166	
Resample at the next service interval to monitor.	Sample Date		Client Info		26 Feb 2024	14 Jan 2022	
	Machine Age	hrs	Client Info		532	343	
	Oil Age	hrs	Client Info		532	0	
	Filter Age	hrs	Client Info		532	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	NORMAL	
VEAR	PQ		ASTM D8184		14	15	
VEAIL	Iron	ppm	ASTM D5185m	>20	1	2	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	0	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	710	0	0	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m	>10	0	<1	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		4	3	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m	>10	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ACTM DE10Em	- 20		л	
		ppm	ASTM D5185m		4	4	
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	<1	
	Water		WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		2044	652 140	
	Particles >6µm		ASTM D7647		477		
	Particles >14µm		ASTM D7647		33	13	
	Particles >21µm		ASTM D7647		9	3	
	Particles >38µm		ASTM D7647		1	0	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		18/16/12	17/14/11	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
<u></u>	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		<1	<1	
he AN level is acceptable for this fluid. The condition of the all is	Boron	ppm	ASTM D5185m		0	1	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	<1	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		<1	<1	
	Calcium	ppm	ASTM D5185m		23	26	
	Phosphorus	ppm	ASTM D5185m		245	263	
	Zinc	ppm	ASTM D5185m		271	294	
	Sulfur	ppm	ASTM D5185m		799	812	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.41	0.301	
	Visc @ 40°C	cSt	ASTM D445		44.7	45.1	





Certificate L2367

Laboratory Sample No.

Lab Number : 06105990 Unique Number : 10909487

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0194919

Received Tested

Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 01 Mar 2024 : 05 Mar 2024 : 05 Mar 2024 - Don Baldridge

JRE - STEPHENSON 245 YARDMASTER COURT STEPHENSON, VA US 22656-1761

Contact: PHIL DAUGHERTY pdaugherty@jamesriverequipment.com T: x:

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: (540)693-2588