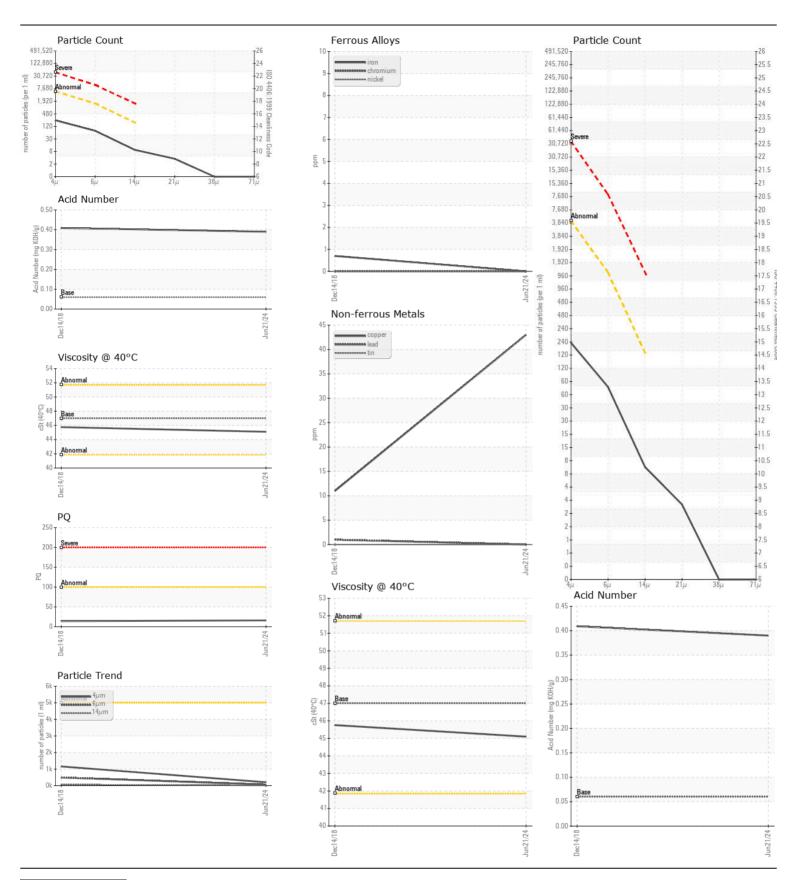
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

[W52619 JR CASKEY]

HAMM GRW180I H2280193

Hydraulic System

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0224935	JRMC470243	
Sample Date		Client Info		21 Jun 2024	14 Dec 2018	
Machine Age	hrs	Client Info		1215	475	
Oil Age	hrs	Client Info		0	475	
Filter Age	hrs	Client Info		0	475	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
PQ		ASTM D8184		16	14	
	mag		>20			
				-		
			/10			
	• • • • • • • • • • • • • • • • • • • •			-		
			>10			
					1	
					11	
			>10	-		
			NONE	-		
		*Visual				
	ppm					
·						
		ASTM D7647	>10	-		
Particles >71µm		ASTM D7647	>3	-	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/13/10	17/16/13	
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	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Sodium	ppm	ASTM D5185m		2	<1	
Boron	ppm	ASTM D5185m		0	<1	
		ASTM D5185m		0	0	
•						
•						
			827			
		ASTM D5185m		911	755	
Culfur						
Sulfur Acid Number (AN)	ppm mg KOH/g	ASTM D3163111 ASTM D8045		0.39	0.409	
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status PQ Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Silicon Potassium Water Particles >4µm Particles >6µm Particles >14µm Particles >38µm Particles >38µm Particles >38µm Particles >38µm Particles >31µm Oil Cleanliness Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	Sample Number Sample Date Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status PQ Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Yellow Metal scalar Silicon ppm Potassium ppm Water Particles >4µm Particles >6µm Particles >14µm Particles >71µm Oil Cleanliness Silt scalar Sand/Dirt scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water Sodium ppm Manganese ppm Magnesium ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus	Sample Number Sample Date Machine Age Oil Age hrs Client Info Clie	Sample Number Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info Client Info Oil Age hrs Client Info Filter Age Oil Changed Filter Changed Sample Status PQ ASTM D8184 Iron Ppm ASTM D5185m Nickel Ppm ASTM D5185m Nickel Ppm ASTM D5185m Aluminum Ppm ASTM D5185m Aluminum Ppm ASTM D5185m ASTM D5185m Aluminum Ppm ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Aluminum Ppm ASTM D5185m ASTM D7647 ASTM	Sample Number Client Info Client Info Client Info Client Info Dit Dit	Sample Number Client Info Sample Date Client Info 21 Jun 2024 14 Dec 2018 Machine Age hrs Client Info 0 4.75





Certificate L2367

Laboratory Sample No. Lab Number

: 06219598 Unique Number: 11097795

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0224935

Received : 25 Jun 2024 **Tested** Diagnosed

: 26 Jun 2024 Test Package : CONST (Additional Tests: PQ)

: 26 Jun 2024 - Don Baldridge

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005

Contact: DAVID ZIEG dzieg@jamesriverequipment.com T: (804)798-6001

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.

F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Contact/Location: DAVID ZIEG - JAMASH