WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

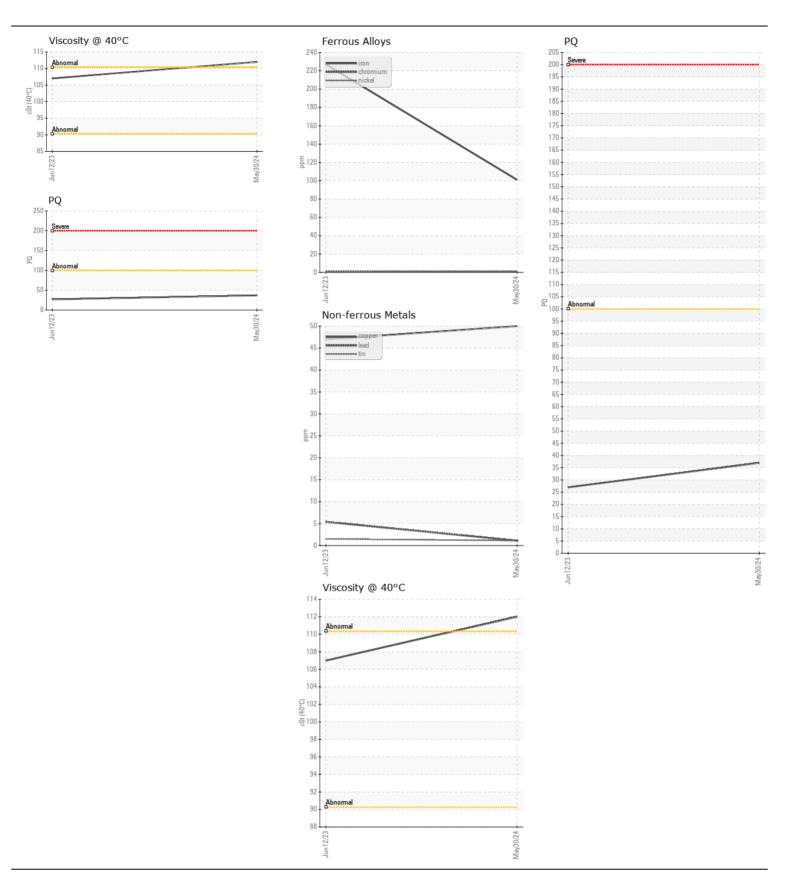
[SPARTAN RENTAL]

HAMM H12iP H284.0289 (S/N WGH0H284VAA00289)

Right Vibratory Drum Gearbox

HAMM GEAR OIL (--- PNT)

Test	UOM	Method	Limit/Abn	Current	History1	History2
·				•		
_	hrs					
-	hrs			1473	805	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Not Changd	
Filter Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
PQ		ASTM D8184		37	27	
Iron	ppm	ASTM D5185m	>200	101	227	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m	>10	<1	0	
Titanium	ppm	ASTM D5185m		2	5	
Silver	ppm	ASTM D5185m		<1	0	
Aluminum	ppm	ASTM D5185m		4	2	
Lead	ppm	ASTM D5185m		1	5	
Copper	ppm	ASTM D5185m		50	47	
Tin	ppm	ASTM D5185m		1	2	
Vanadium	ppm	ASTM D5185m		<1	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m		26	30	
Potassium		ASTM D5185m	>20	3	2	
Water				NEG	NEG	
	scalar				NONE	
Debris	scalar	*Visual		NONE		
Sand/Dirt	scalar	*Visual		NONE	NONE	
Appearance	scalar	*Visual		NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Sodium	nnm	ASTM D5185m		۔۔۔۔۔۔۔۔۔۔۔۔	Ω	
Barium	ppm	ASTM D5185m		4	10	
	ppm	ASTM D5185m		<1	<1	
Molybdenum						
Molybdenum Manganese				-1	1	
Manganese	ppm	ASTM D5185m		<1 4	1 7	
Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m		4	7	
Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		4 25	7 94	
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		4 25 1349	7 94 1255	
Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		4 25	7 94	
	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 Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	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 Silicon ppm Potassium ppm Water Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Codor scalar Emulsified Water scalar Sodium ppm Boron ppm Boron	Sample Number Sample Date Machine Age Inrs Oil Age Inrs Oil Age Inrs Oil Client Info Oil Changed Filter Changed Sample Status PQ ASTM D8184 Iron Chromium Internation Silver Irianium Internation Silver Info Depm ASTM D5185m Vanadium Internation	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 hrs Client Info Client Info Oil Changed Filter Changed Sample Status PQ ASTM D8184 Iron ppm ASTM D5185m >200 Chromium ppm ASTM D5185m >10 Nickel ppm ASTM D5185m Silver ppm ASTM D5185m Silver ppm ASTM D5185m Aluminum ppm ASTM D5185m Lead ppm ASTM D5185m Lead ppm ASTM D5185m Copper ppm ASTM D5185m Tin ppm ASTM D5185m Vanadium ppm ASTM D5185m Vone Silicon ppm ASTM D5185m Potassium NONE Sand/Dirt scalar *Visual NONE Sand/Dirt scalar *Visual NONE Sand/Dirt Appearance scalar *Visual NONE NORE Appearance scalar *Visual NORE	Sample Number Client Info JR0214598 Sample Date Client Info 30 May 2024 Machine Age hrs Client Info 1473 Oil Age hrs Client Info 1473 Filter Age hrs Client Info 0 Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status NORMAL PQ ASTM D8184 37 Iron ppm ASTM D5185m >200 101 Chromium ppm ASTM D5185m >10 <1	Sample Number Client Info JR0214598 JR0182255 Sample Date Client Info 30 May 2024 12 Jun 2023 Machine Age hrs Client Info 1473 805 Oil Age hrs Client Info 0 0 Filter Age hrs Client Info Changed Not Changed Filter Changed Client Info N/A N/A Sample Status NORMAL NORMAL NORMAL PQ ASTM D8184 37 27 Iron ppm ASTM D5185m >200 101 227 Chromium ppm ASTM D5185m >10 <1







Certificate L2367

Laboratory Sample No.

Lab Number : 06196911 Unique Number : 11059034

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0214598

Received **Tested** Diagnosed Test Package : CONST (Additional Tests: PQ)

: 31 May 2024 : 03 Jun 2024

: 03 Jun 2024 - Wes Davis

9107 OWENS DRIVE MANASSAS PARK, VA US 20111 Contact: DON VEST

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

JRE - MANASSAS PARK

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