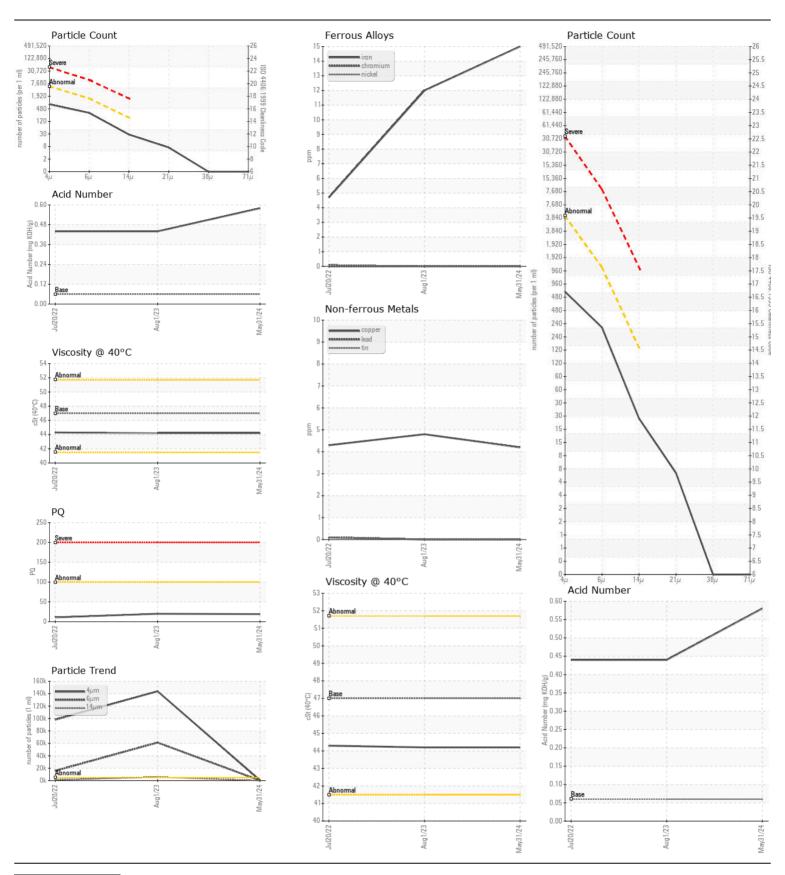
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Machine Id

HAMM H2840111

Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
December at the country of the following terror of the country of	Sample Number		Client Info		JR0217615	JR0182041	JR0137127
Resample at the next service interval to monitor.	Sample Date		Client Info		31 May 2024	01 Aug 2023	20 Jul 202
	Machine Age	hrs	Client Info		2073	436	436
	Oil Age	hrs	Client Info		0	436	0
	Filter Age	hrs	Client Info		0	436	0
	Oil Changed		Client Info		Changed	Not Changd	Not Change
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	SEVERE	ABNORMA
WEAR	PQ		ASTM D8184		19	20	11
	Iron	ppm	ASTM D5185m	>20	15	12	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	0	0
	Nickel	ppm	ASTM D5185m	>10	0	0	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	<1	2	1
	Lead	ppm	ASTM D5185m	>10	0	0	<1
	Copper	ppm	ASTM D5185m	>75	4	5	4
	Tin	ppm	ASTM D5185m	>10	0	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	▲ LIGHT
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6	8	6
331171111117111311	Potassium	ppm	ASTM D5185m	>20	1	0	<1
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>5000	689	1 43804	△ 97986
	Particles >6µm		ASTM D7647	>1300	270	▲ 61235	15799
	Particles >14µm		ASTM D7647	>160	25	▲ 5787	<u>▲</u> 1227
	Particles >21µm		ASTM D7647	>40	6	1204	<u></u> 248
	Particles >38µm		ASTM D7647	>10	0	<u>^</u> 22	1 7
	Particles >71µm		ASTM D7647	>3	0	1	1
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12	4 24/23/20	2 4/21/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	<1
	Boron	ppm	ASTM D5185m		0	0	3
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		<1	0	0
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m		45	49	46
	Calcium	ppm	ASTM D5185m		362	130	17
	Phosphorus	ppm	ASTM D5185m		353	324	272
	Zinc	ppm	ASTM D5185m		468	415	336
	Sulfur	ppm	ASTM D5185m		1364	1231	1010
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.58	0.44	0.44
	Visc @ 40°C	cSt	ASTM D445		44.2	44.2	44.3





Certificate L2367

Laboratory Sample No. Lab Number

: JR0217615 : 06196596 Unique Number: 11058719

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 31 May 2024 Diagnosed Test Package : CONST (Additional Tests: PQ)

: 03 Jun 2024 : 03 Jun 2024 - Don Baldridge

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)

B & S SITE DEVLEOPMENT

7800 PINEY BRANCH LANE BRISTOW, VA US 20136

Contact: DANNY HUFF dhuff@bandssite.com

> T: (540)270-3203 F: (703)753-0605