WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL NORMAL

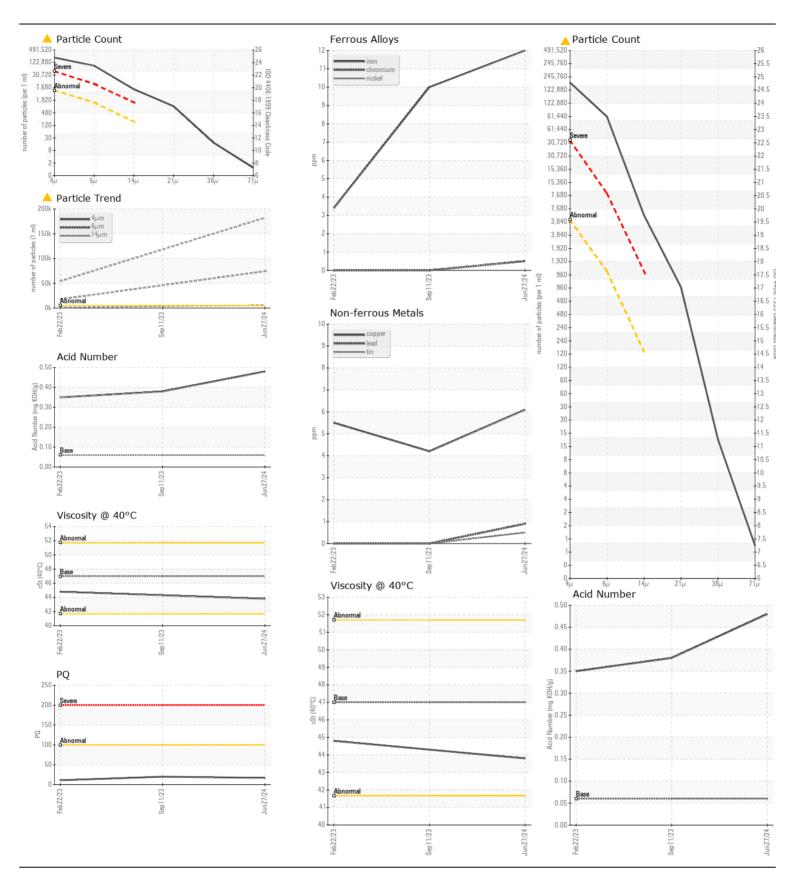
Machine Id

HAMM H12I H2840084

Component

Hydraulic System
Fluid

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0225547	JR0187731	JR0160209
No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		27 Jun 2024	11 Sep 2023	22 Feb 202
	Machine Age	hrs	Client Info		1509	946	455
	Oil Age	hrs	Client Info		1509	946	0
	Filter Age	hrs	Client Info		1509	946	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Chang
	Filter Changed Sample Status		Client Info		Changed ABNORMAL	Changed ABNORMAL	Changed ABNORMA
WEAR	PQ		ASTM D8184		17	20	11
VEAIL	Iron	ppm	ASTM D5185m	>20	12	10	3
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		 <1	0	0
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m	710	<1	<1	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m	>10	2	2	1
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		6	4	6
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m	7.0	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	10	11	6
	Potassium	ppm	ASTM D5185m	>20	2	<1	0
There is a high amount of particulates present in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>5000	<u> </u>		4 54197
	Particles >6µm		ASTM D7647	>1300	4407		<u>17611</u>
	Particles >14μm		ASTM D7647	>160	<u></u> 5640		<u>1189</u>
	Particles >21μm		ASTM D7647		<u> </u>		<u>^</u> 288
	Particles >38μm		ASTM D7647		<u> </u>		<u></u> 11
	Particles >71μm		ASTM D7647		1		0
	Oil Cleanliness		ISO 4406 (c)		<u> </u>		<u>\$\Delta\$ 23/21/1</u>
	Silt	scalar	*Visual	NONE	LIGHT	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	▲ MODER	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		0	<1	<1
The AN level is acceptable for this fluid. The condition of the -il i-	Boron	ppm	ASTM D5185m		0	0	0
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		1	0	0
	Molybdenum	ppm	ASTM D5185m		<1	0	0
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		40	44	36
	Calcium	ppm	ASTM D5185m		201	19	17
	Phosphorus	ppm	ASTM D5185m		270	146	239
	Zinc	ppm	ASTM D5185m		413	347	312
	Sulfur	ppm	ASTM D5185m		1052	1071	925
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.48	0.38	0.35
	Visc @ 40°C	cSt	ASTM D445	47	43.8	44.3	44.8





Certificate L2367

Report Id: BSSWAR [WUSCAR] 06223422 (Generated: 07/01/2024 12:06:34) Rev: 1

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0225547 : 06223422

Unique Number : 11101619

Received **Tested** Diagnosed

: 28 Jun 2024 : 01 Jul 2024

: 01 Jul 2024 - Don Baldridge

Test Package : CONST (Additional Tests: PQ)

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)

US 20136 Contact: DANNY HUFF dhuff@bandssite.com

B & S SITE DEVLEOPMENT

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