**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL ATTENTION NORMAL** 

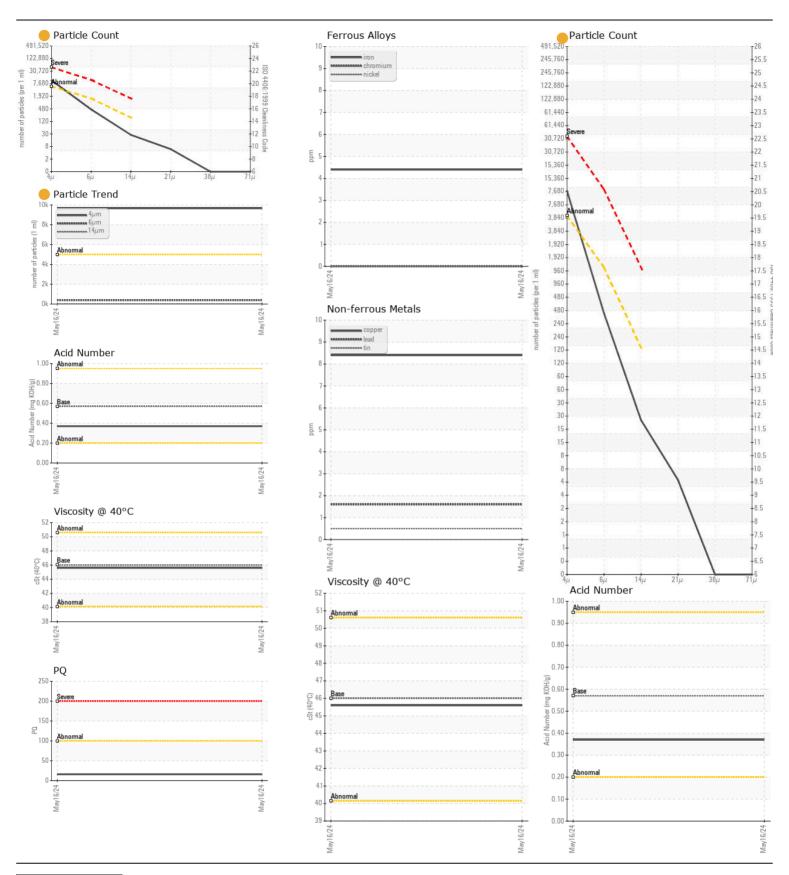
Machine Id

## HAMM HD120IVVHF WGH0H304PHAA00028

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)

AW HYDRAULIC OIL 150 46 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0209697		
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		16 May 2024		
	Machine Age	hrs	Client Info		75		
	Oil Age	hrs	Client Info		75		
	Filter Age	hrs	Client Info		75		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
WEAR	PQ		ASTM D8184		16		
	Iron	ppm	ASTM D5185m	>20	4		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		<1		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		8		
	Tin	ppm	ASTM D5185m	>10	<1		
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3		
	Potassium	ppm	ASTM D5185m	>20	0		
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Water		WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647	>5000	9660		
	Particles >6µm		ASTM D7647	>1300	392		
	Particles >14μm		ASTM D7647	>160	24		
	Particles >21μm		ASTM D7647		5		
	Particles >38μm		ASTM D7647	>10	0		
	Particles >71μm		ASTM D7647	>3	0		
	Oil Cleanliness		ISO 4406 (c)		0 20/16/12		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
<u></u>	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
	Boron	ppm	ASTM D5185m	5	0		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	5	0		
	Molybdenum	ppm	ASTM D5185m	5	<1		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	25	64		
	Calcium	ppm	ASTM D5185m	200	104		
	Phosphorus	ppm	ASTM D5185m		310		
	Zinc	ppm	ASTM D5185m	370	369		
	Sulfur	ppm	ASTM D5185m		1056		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.37		
	Visc @ 40°C	cSt	ASTM D445	46	45.6		





Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 11042785

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0209697 : 06186033

Received : 21 May 2024 **Tested** Diagnosed

: 22 May 2024 : 23 May 2024 - Don Baldridge

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC US 27529

Contact: JOHN GUASCHINO john.guaschino@jamesriverequipment.com

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. F: (919)779-5432 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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