WEAR CONTAMINATION FLUID CONDITION

ABNORMAL ABNORMAL NORMAL

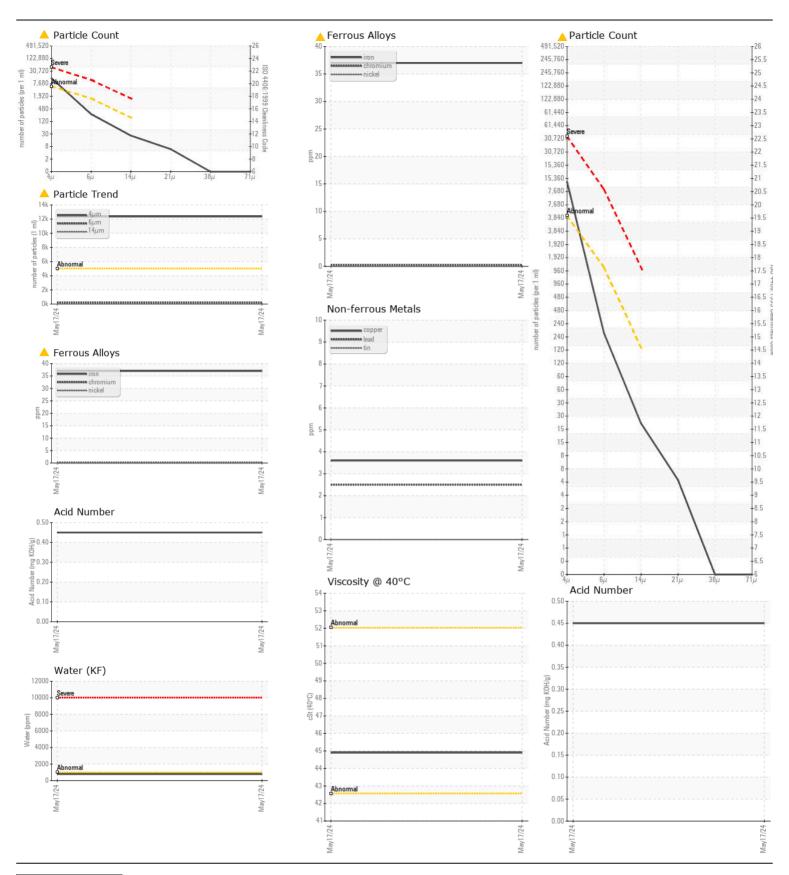
[16W16187]

## **HAMM HD120IVVHF H3040034**

Hydraulic System

WIRTGEN GROUP HYDRAULIC OIL HVLP 46 (20 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOMINICIDATION .	Sample Number	OOW	Client Info	Little / toll	JR0207186		
The filter change at the time of sampling has been noted. Resample at	Sample Date		Client Info		17 May 2024		
the next service interval to monitor. ( Customer Sample Comment:	Machine Age	hrs	Client Info		118		
16W16187)	Oil Age	hrs	Client Info		118		
	Filter Age	hrs	Client Info		118		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	PQ		ASTM D8184		34		
The iron level is abnormal.	Iron	ppm	ASTM D5185m		<b>△</b> 37		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	10	0		
	Aluminum	ppm	ASTM D5185m		<1		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		4 0		
	Tin Vanadium	ppm	ASTM D5185m ASTM D5185m	>10	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
			v 150aa1				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4		
	Potassium	ppm	ASTM D5185m	>20	0		
There is a high amount of silt (particulates < 6 microns in size) present	Water	%	ASTM D6304	>0.1	0.079		
in the oil.	ppm Water	ppm	ASTM D6304	>1000	790		
	Particles >4μm		ASTM D7647		<b>12356</b>		
	Particles >6µm		ASTM D7647	>1300	233		
	Particles >14μm		ASTM D7647		22		
	Particles >21µm		ASTM D7647		5		
	Particles >38µm		ASTM D7647		0		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness Silt		ISO 4406 (c)		<u>A</u> 21/15/12		
	Debris	scalar	*Visual *Visual	NONE	NONE NONE		
	Sand/Dirt	scalar scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	HAZY		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	0.2%		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
	Boron	ppm	ASTM D5185m		0		
The AN level is acceptable for this fluid. The condition of the oils	Barium	ppm	ASTM D5185m		0		
additive package is suitable for further service.	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		42		
	Calcium	ppm	ASTM D5185m		4		
	Phosphorus	ppm	ASTM D5185m		266		
	Zinc	ppm	ASTM D5185m		328		
	Sulfur	ppm	ASTM D5185m		835		
	Acid Number (AN)	mg KOH/g	ASTM D8045 ASTM D445		0.45		
	Visc @ 40°C	cSt	ASTIVI D445		44.9		





Laboratory Sample No. Unique Number : 11044292

Lab Number

: JR0207186 : 06187540

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

Diagnosed

: 22 May 2024 : 31 May 2024 : 31 May 2024 - Jonathan Hester

JRE - CASTLE HAYNE 113 CROWATAN ROAD CASTLE HAYNE, NC US 28429-5819 Contact: WILMINGTON SHOP

Test Package: CONST (Additional Tests: KF, PQ) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

todd.simmons@jamesriverequipment.com;canastasio@wearcheck.com;canastasio@we T: (910)675-9211

\* - 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: