WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

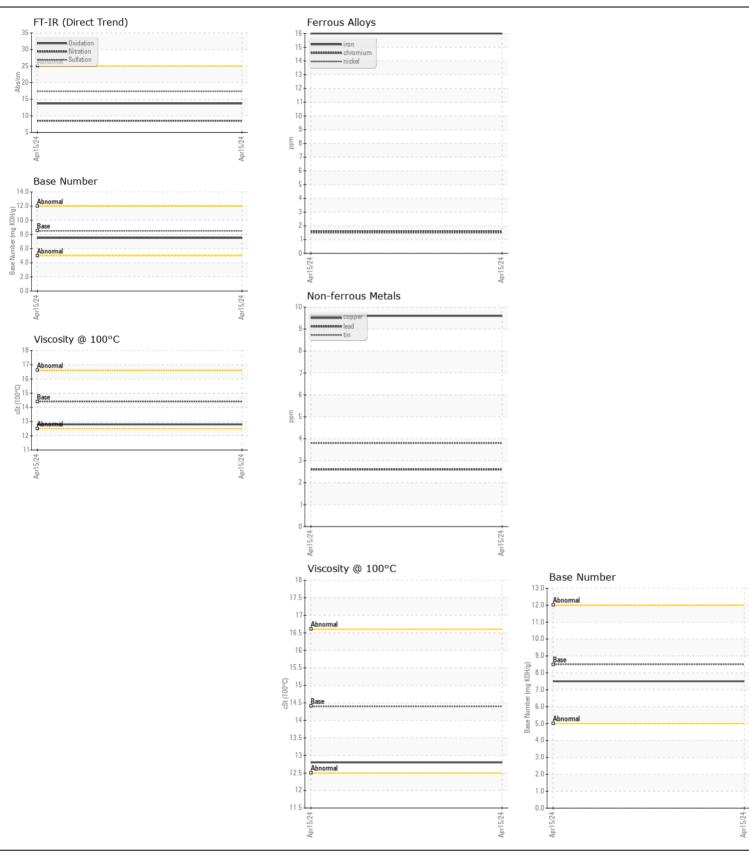
Machine Id

## **HAMM HC 200I C WGH0H256KHAA00116**

Diesel Engine

Fluid

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.	Sample Number		Client Info		JR0208314		
	Sample Date		Client Info		15 Apr 2024		
	Machine Age	hrs	Client Info		298		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	16		
WEAR	Chromium	ppm	ASTM D5185m		2		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		2		
	Titanium	ppm	ASTM D5185m	74	<1		
	Silver		ASTM D5185m	~3	<1		
	Aluminum	ppm	ASTM D5185m		5		
	Lead		ASTM D5185m		3		
	Copper	ppm	ASTM D5185m		10		
	Tin		ASTM D5185m		4		
	Vanadium	ppm	ASTM D5185m	/10	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
			v 150aa1				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	21		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	8.5		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4		
	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		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION  The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	<b>&gt;216</b>	4		
	Boron	ppm	ASTM D5185m		83		
	Barium	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m	-	75		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m	450	209		
	Calcium	ppm	ASTM D5185m		1948		
	Phosphorus	ppm	ASTM D5185m		1047		
	Zinc	ppm	ASTM D5185m		1121		
	Sulfur	ppm	ASTM D5185m		4529		
	Oxidation	Abs/.1mm	*ASTM D7414		13.7		
	Base Number (BN)				7.5		
	Visc @ 100°C	cSt	ASTM D445				







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0208314 Lab Number : 06152906

Unique Number : 10982984

**Tested** Diagnosed Test Package : CONST (Additional Tests: TBN)

Received : 18 Apr 2024 : 19 Apr 2024

: 19 Apr 2024 - Wes Davis

JRE - STEPHENSON 245 YARDMASTER COURT STEPHENSON, VA US 22656-1761

Contact: PHIL DAUGHERTY pdaugherty@jamesriverequipment.com

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)

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