WEAR CONTAMINATION FLUID CONDITION

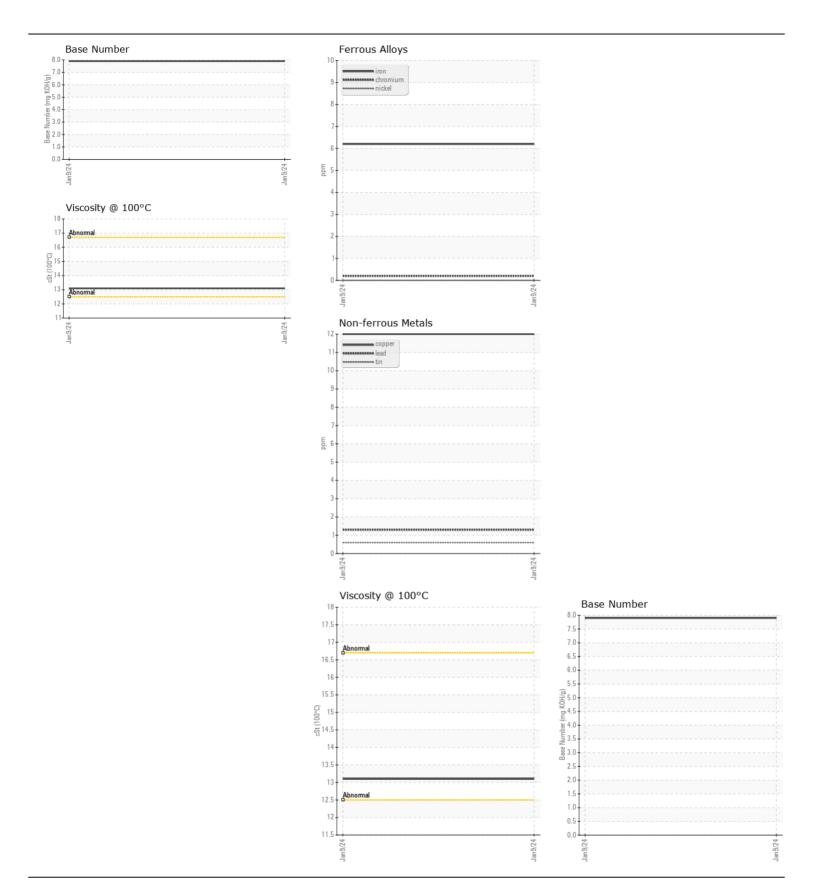
NORMAL NORMAL

Machine Id

HAMM HC 70I H2870193

Diesel Engine

Diesel Engine Fluid {not provided} (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HEGOWIWIENDATION	Sample Number	00	Client Info	2	JR0195438	,	
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		09 Jan 2024		
	Machine Age	hrs	Client Info		36		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed	0	Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
MEAD			ACTM DE10Em	. 100			
WEAR	Iron	ppm	ASTM D5185m		6		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		12		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	12		
CONTAMINATION	Potassium		ASTM D5185m		2		
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	>0.2	NEG		
	Soot %	%	*ASTM D7844	. 2	0.1		
	Nitration	Abs/cm	*ASTM D7644	>20	7.2		
	Sulfation	Abs/.1mm	*ASTM D7624				
	Silt		*Visual		16.1		
		scalar		NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML NEG		
	Emulsified Water	scalar	visuai	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
EGIB GONDITION	Boron	ppm	ASTM D5185m		76		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		77		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		41		
	Calcium	ppm	ASTM D5185m		2262		
	Phosphorus	ppm	ASTM D5185m		1018		
	Zinc	ppm	ASTM D5185m		1153		
	Sulfur	ppm	ASTM D5185m		4311		
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	11.9		
	Base Number (BN)		ASTM D7414 ASTM D2896	723	7.9		
	Visc @ 100°C	0 0	ASTM D2090 ASTM D445				
	visc (W 100°C	cSt	40 INI D440		13.1	/	







Laboratory Sample No. Lab Number

: 06060865 : 10832247 Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0195438

Recieved : 16 Jan 2024 Diagnosed

: 17 Jan 2024

Diagnostician : Wes Davis

Test Package : CONST (Additional Tests: TBN) 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.

JRE - STEPHENSON 245 YARDMASTER COURT STEPHENSON, VA

US 22656-1761 Contact: PHIL DAUGHERTY

pdaugherty@jamesriverequipment.com

T: x: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (540)693-2588