

WEAR CONTAMINATION FLUID CONDITION **ABNORMAL ABNORMAL NORMAL**

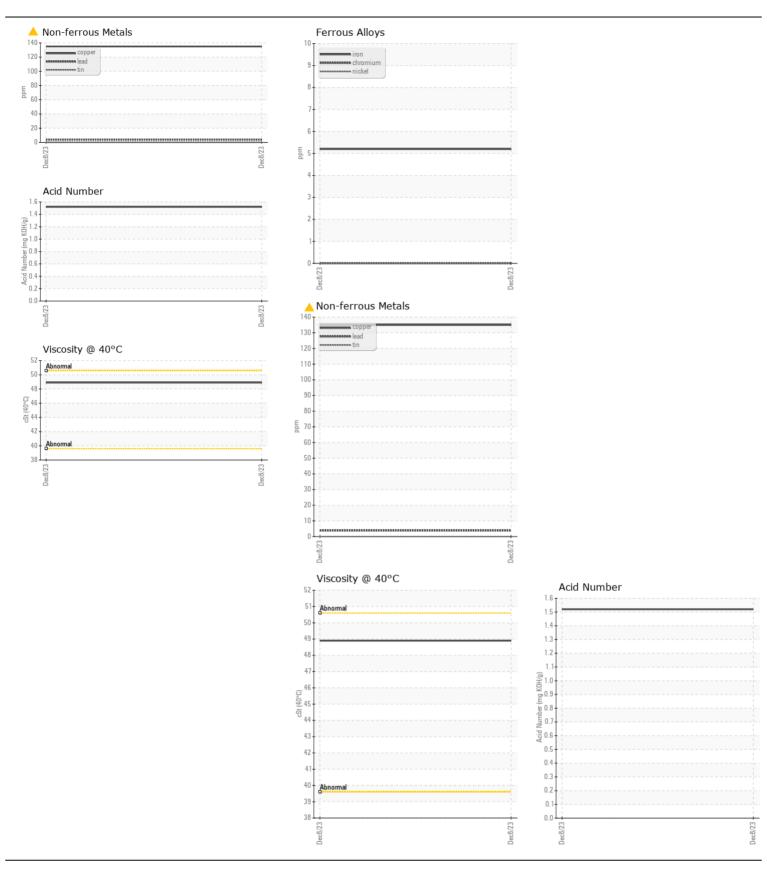
INGERSOLL RAND DD34HF ROLLER RA236 (S/N 191743)

Component Hydraulic System

Hydraulic System {not provided} (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.	Sample Number		Client Info		WC0675101		
	Sample Date		Client Info		08 Dec 2023		
	Machine Age	hrs	Client Info		5772		
	Oil Age	hrs	Client Info		146		
	Filter Age	hrs	Client Info		146		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>20	5		
The copper level is abnormal. All other 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	>10	1		
	Lead	ppm	ASTM D5185m	>10	4		
	Copper	ppm	ASTM D5185m	>75	<u> </u>		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5		
Moderate concentration of visible dirt/debris present in the oil.	Potassium	ppm	ASTM D5185m	>20	1		
	Water		WC Method	>0.1	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	▲ MODER		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		29		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		1		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		22		
	Calcium	ppm	ASTM D5185m		2814		
	Phosphorus	ppm	ASTM D5185m		902		
	Zinc	ppm	ASTM D5185m		1095		
	Sulfur	ppm	ASTM D5185m		4645		
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.52		

Visc @ 40°C cSt

ASTM D445







Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: WC0675101 : 06062584 : 10833966 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 17 Jan 2024 Diagnosed : 19 Jan 2024 : Jonathan Hester Diagnostician

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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