WEAR CONTAMINATION FLUID CONDITION

ABNORMAL
ABNORMAL
NORMAL

OIL ANALYSIS REPORT

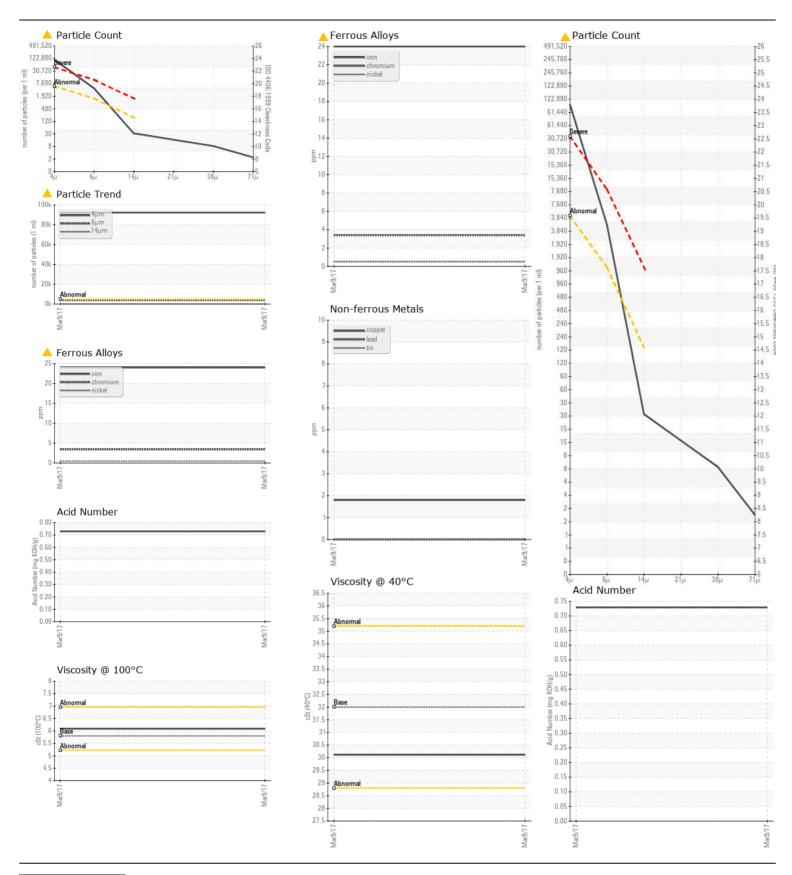
Machine Id

## LULL 844C-42 1011 (S/N 99W20P22-2196)

Hydraulic System

TRC HYDRAULIC OIL ISO 32- SAE10W (65 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR04186027		
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		09 Mar 2017		
	Machine Age	hrs	Client Info		11388		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		3434		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
VEAR	Iron	nnm	ASTM D5185m	>20	<u>^</u> 24		
VEAN	Chromium	ppm	ASTM D5105m		3		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	/10	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m	<b>&gt;10</b>	2		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5105m	710	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
			1100001				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5		
	Potassium	ppm	ASTM D5185m	>20	9		
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water		WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647	>5000	<b>92295</b>		
	Particles >6µm		ASTM D7647	>1300	<b>4</b> 3963		
	Particles >14µm		ASTM D7647	>160	28		
	Particles >21µm		ASTM D7647	>40	14		
	Particles >38µm		ASTM D7647	>10	7		
	Particles >71µm		ASTM D7647	>3	2		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>4</b> 24/19/12		
	Particles 5-15µm	count	*NAS 1638	>1300	390041		
	Particles 15-25µm	count	*NAS 1638	>160	-745		
	Particles 25-50µm	count	*NAS 1638	>40	-684		
	Particles 50-100µm	count	*NAS 1638	>10	151		
	Particles >100µm	count	*NAS 1638	>3	975		
	NAS Code		*NAS 1638	>19/17/14	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		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m		<1		
-LOID CONDITION	Boron	ppm	ASTM D5185m		<1		
The AN level is acceptable for this fluid. The condition of the oil is	Barium	ppm	ASTM D5185m		<1 <1		
suitable for further service.	Molybdenum	ppm	ASTM D5165III		<1 <1		
	Manganese	ppm	ASTM D5185m		<1 <1		
	Magnesium	ppm	ASTM D5185m		<1 <1		
	Calcium	ppm	ASTM D5185m		63		
	Phosphorus	ppm	ASTM D5185m		544		
	Zinc	ppm	ASTM D5185m	1000	544 674		
	Sulfur	ppm	ASTM D5185m	1000			
	Acid Number (AN)	ppm	ASTM D3163111 ASTM D8045		1455 0.729		
	Visc @ 40°C	mg KOH/g		32	30.12		
	Visc @ 40°C	cSt cSt	ASTM D445	5.8			
			ASTM D2270		6.09		
	Viscosity Index (VI)	Scale	49 LINI D5510	90	155	/	





Laboratory Sample No. Lab Number : 04186027 Unique Number : 7739447

: TR04186027

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

**Tested** Diagnosed

: 21 Mar 2017 : 23 Mar 2017

: 23 Mar 2017 - Doug Bogart

**CONNECTICUT MASON CONTRACTORS** 75 BYSIEWICZ DR MIDDLETOWN, CT

US 06457 Contact: PATRICK KELLY

Test Package: MOB 2 (Additional Tests: KV100, PQ, PrtCountNAS, VI) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711.

\* - 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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