

OIL ANALYSIS REPORT

VISUAL METAL

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Machine Id LIEBHERR LR 1600/2 CR 6604 TRACK 4 (S/N 074564) Component Planetary

Fluid

{not provided} (9 GAL)

DIAGNOSIS

Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

A Wear

The copper level is abnormal. Very high concentration of visible metal present.

Contamination

There is no indication of any contamination in the component.

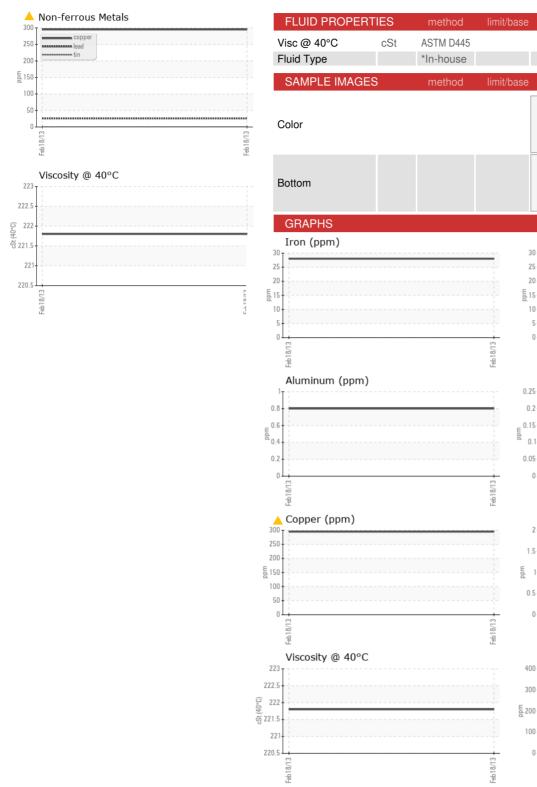
Fluid Condition

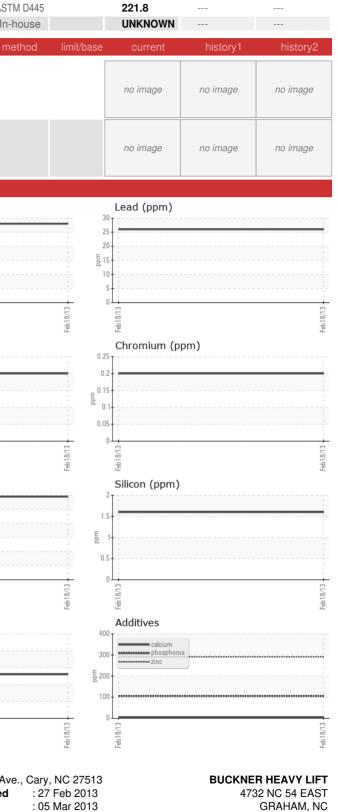
The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WCMC126349		
Sample Date		Client Info		18 Feb 2013		
Machine Age	hrs	Client Info		2050		
Oil Age	hrs	Client Info		2050		
Oil Changed		Client Info		Not Changd		
Sample Status				SEVERE		
CONTAMINATION	1	method	limit/base	current	history1	history2
Water	•	WC Method	in in base	NEG		
WEAR METALS		method	limit/base	current	history1	history2
			inningbase		Thistory I	matoryz
Iron	ppm	ASTM D5185m		28		
Chromium	ppm	ASTM D5185m		<1		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m		<1		
Lead	ppm	ASTM D5185m		26		
Copper	ppm	ASTM D5185m		<u> </u>		
Tin	ppm	ASTM D5185m		<1		
Antimony	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum		ASTM D5185m		۰ <1		
	ppm	ASTM D5185m		0		
Manganese	ppm			-		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		5		
Phosphorus	ppm	ASTM D5185m		105		
Zinc	ppm	ASTM D5185m		291		
Sulfur	ppm	ASTM D5185m		177		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		2		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m		0		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE			
Precipitate	scalar	*Visual	NONE	NONE		
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		NEG		
Free Water		*Visual	-	NEG	MICHAEL LAWS	SON - BUCGR
I ICE Walel	scalar	VISUAI		NEG		



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