

WEAR CONTAMINATION FLUID CONDITION

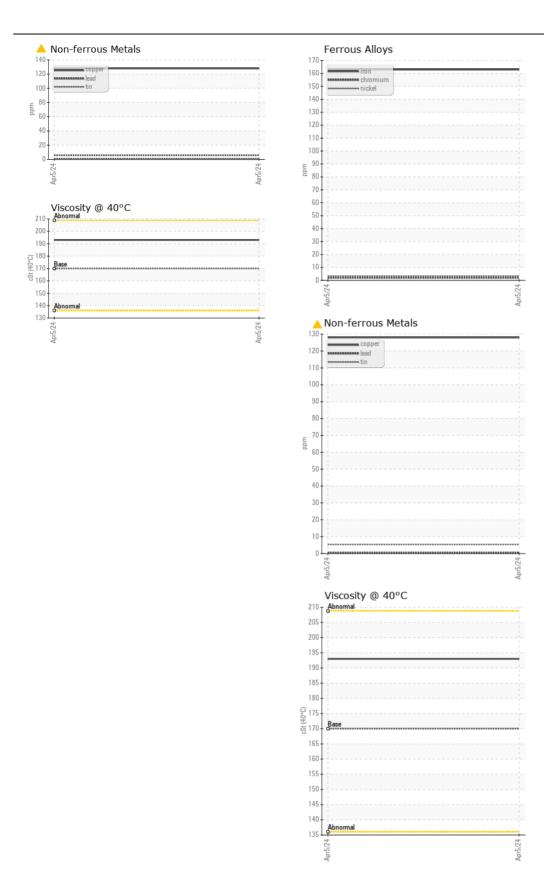
ABNORMAL NORMAL NORMAL



Machine Id LIEBHERR L556 072521-1826

Rear Differential

LIEBHERR GEAR BASIC 90 LS	(GAL)						
RECOMMENDATION No corrective action is recommended at this time. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LH0259155		
	Sample Date		Client Info		05 Apr 2024		
	Machine Age	hrs	Client Info		681		
	Oil Age	hrs	Client Info		681		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>1000	163		
The copper level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	2		
	Nickel	ppm	ASTM D5185m	>2	3		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>25	2		
	Lead	ppm	ASTM D5185m	>5	<1		
	Copper	ppm	ASTM D5185m	>100	<u> </u>		
	Tin	ppm	ASTM D5185m	>10	5		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>100	24		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
	Water		WC Method	>.2	NEG		
	Silt	scalar	*Visual	NONE	LIGHT		
	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	>.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		7		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	0	3		
	Barium	ppm	ASTM D5185m	0	<1		
	Molybdenum	ppm	ASTM D5185m	0	<1		
	Manganese	ppm	ASTM D5185m	0	35		
	Magnesium	ppm	ASTM D5185m	<1	2		
	Calcium	ppm	ASTM D5185m	<1	3		
	Phosphorus	ppm	ASTM D5185m	2143	2328		
	Zinc	ppm	ASTM D5185m	<1	58		
	Sulfur	ppm	ASTM D5185m	23468	28062		
	Visc @ 40°C	cSt	ASTM D445	170	193		







Report Id: DERHOU [WUSCAR] 06215156 (Generated: 06/21/2024 14:04:52) Rev: 1

Certificate L2367

Laboratory Sample No.

: LH0259155 Lab Number : 06215156 Unique Number : 11088020 Test Package : CONST

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jun 2024 **Tested** : 20 Jun 2024

Diagnosed

: 21 Jun 2024 - Sean Felton

DERICHEBOURG RECYCLING 1 WHARF ST HOUSTON, TX

US 77012 Contact: JEFF MCLEROY

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* - 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)