WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

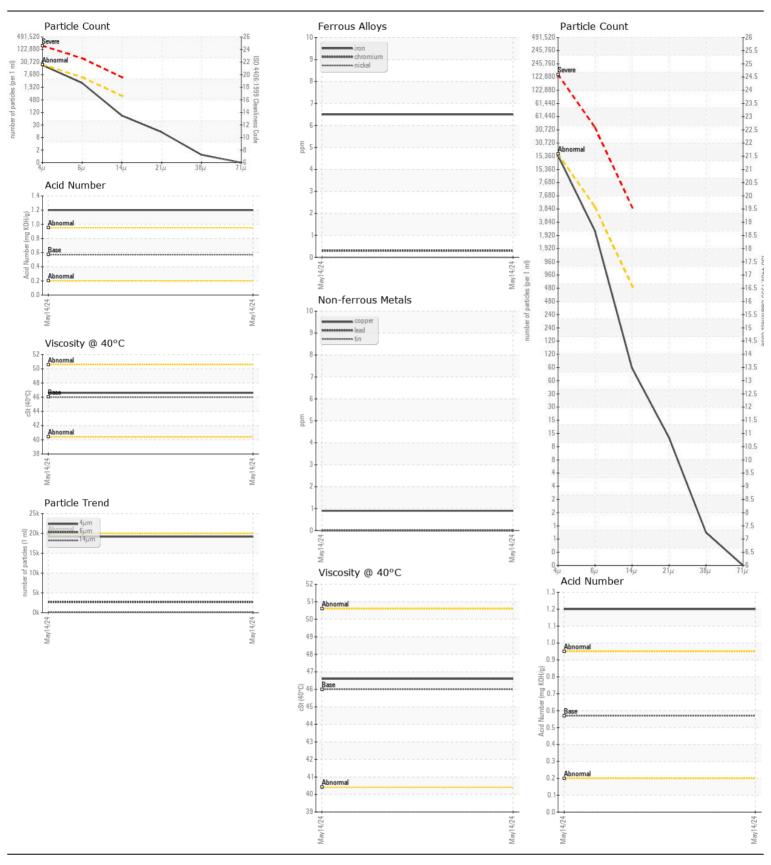


Machine Id LIEBHERR LH40M 1215-149851

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HEOOMMENDATION	Sample Number	00	Client Info		LH0273635		
Resample at the next service interval to monitor.	Sample Date		Client Info		14 May 2024		
	Machine Age	hrs	Client Info		549		
	Oil Age	hrs	Client Info		549		
	Filter Age	hrs	Client Info		549		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m		6		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>5	2		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		<1		
	Tin	ppm	ASTM D5185m	>5	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION Silicon ppm ASTM D5185m >15					3		
CONTAMINATION	Potassium	ppm	ASTM D5185m		2		
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Water	ppm		>0.1	NEG		
	Particles >4µm		ASTM D7647		19174		
	Particles >6µm		ASTM D7647		2659		
	Particles >6µm		ASTM D7647		74		
	Particles >21µm		ASTM D7647		12		
	Particles >38µm		ASTM D7647		1		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		21/19/13		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	LIGHT		
	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		0		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		0		
Sultable for farther service.	Molybdenum	ppm	ASTM D5185m	5	0		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		4		
	Calcium	ppm	ASTM D5185m		1343		
	Phosphorus	ppm	ASTM D5185m		623		
	Zinc	ppm	ASTM D5185m	370	738		
	Sulfur	ppm	ASTM D5185m		4340		
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.20		
	Visc @ 40°C	cSt	ASTM D445	46	46.6		





Certificate L2367

Laboratory Sample No.

: LH0273635 Lab Number : 06214602 Unique Number : 11087466 Test Package : CONST

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

Diagnosed : 21 Jun 2024 - Don Baldridge STAINLESS STEL MIDWEST

2615 KY-146 LAGRANGE, KY US 40031

Contact: Service Manager

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)

T: F: