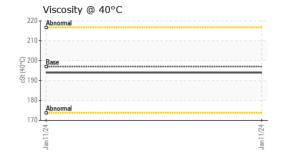
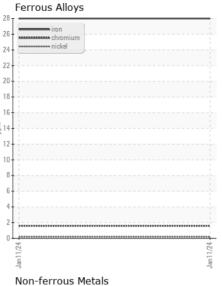
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

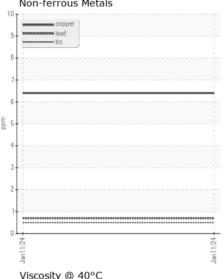
Machine Id 142001 - TG34

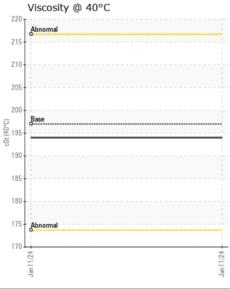
Component **Gearbox**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number	00	Client Info	2	LM0000797		
	Sample Date		Client Info		11 Jan 2024		
	Machine Age	hrs	Client Info		517		
	Oil Age	hrs	Client Info		517		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>200	28		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	2		
	Nickel	ppm	ASTM D5185m	>10	<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		<1		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m	>200	6		
	Tin	ppm	ASTM D5185m	>10	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	7		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3		
	Water		WC Method		NEG		
	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	>0.2	NEG		
LUB CONDITION							
LUID CONDITION	Sodium	ppm	ASTM D5185m		3		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		29		
	Barium	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		63		
	Calcium	ppm	ASTM D5185m		13		
	Phosphorus	ppm	ASTM D5185m		1281		
	Zinc	ppm	ASTM D5185m		0		
	Sulfur	ppm	ASTM D5185m		27098		











Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10836585

: LM0000797 : 06065203 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024 Diagnosed : 22 Jan 2024

Diagnostician : Sean Felton

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)

LIEBHERR USA CO - Maritime Cranes

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Contact/Location: RONNY FUNK - LIEHIA