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

Machine Id 18900

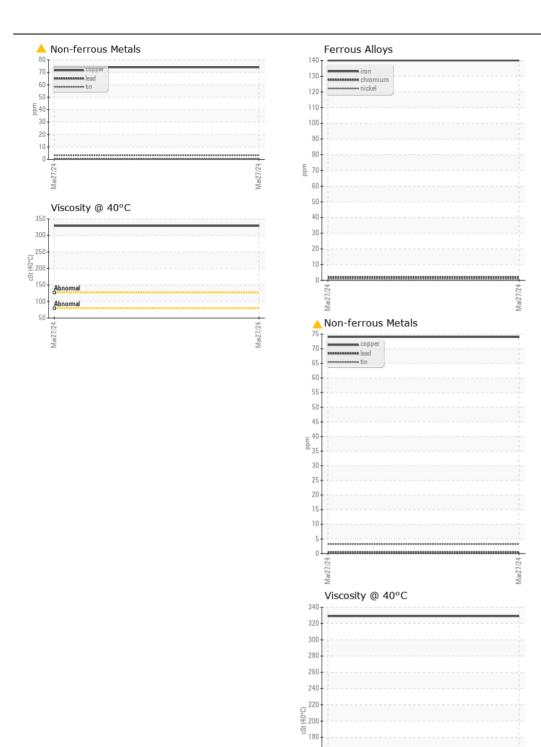
## Component Right Final Drive

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	00111	Client Info	Little	LH0244414		
No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		27 Mar 2024		
	Machine Age	hrs	Client Info		2509		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
VE A D			40TM D5405				
WEAR  The copper level is abnormal. All other component wear rates are normal.	Iron	ppm	ASTM D5185m		140		
	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m	>10	1		
	Titanium Silver	ppm	ASTM D5185m ASTM D5185m		<1 0		
	Aluminum	ppm	ASTM D5185m	<b>&gt;25</b>	3		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		<u>^</u> 74		
	Tin	ppm	ASTM D5185m		3		
	Vanadium	ppm	ASTM D5185m	7.0	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION  There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m		8		
	Potassium	ppm	ASTM D5185m		3		
	Water		WC Method	>0.2	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance Odor	scalar	*Visual	NORML NORML	NORML NORML		
	Emulsified Water		*Visual	>0.2	NEG		
	Lindisined Water		VISUAI				
LUID CONDITION	Sodium	ppm	ASTM D5185m		4		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		4		
	Barium	ppm	ASTM D5185m		44		
	Molybdenum	ppm	ASTM D5185m		<1		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		4		
	Calcium	ppm	ASTM D5185m		24		
	Phosphorus	ppm	ASTM D5185m		1162		
	Zinc	ppm	ASTM D5185m		49		
	Sulfur	ppm	ASTM D5185m		28664		

Visc @ 40°C

cSt

ASTM D445







Certificate L2367

Laboratory Sample No.

Lab Number : 06158591 Unique Number : 10994014 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : LH0244414 : 23 Apr 2024 **Tested** 

Diagnosed

: 25 Apr 2024 : 25 Apr 2024 - Jonathan Hester

LIEBHERR NENZING CRANE CO. 7075 BENNINGTON ST HOUSTON, TX US 77028

Contact: MARKUS WACHTER markus.wachter@liebherr.com T: (713)636-4059

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)

F: (713)636-4051