



[[YORKTOWN MATERIALS]] LIEBHERR R946 045303-1491 - Left Fin

Sample No: LH0267610

Oil Type: LIEBHERR GEAR BASIC 90 LS

A				
U SAMI	PLE INFOR	MATION		
Sample Number		LH0267610	 	
Sample Date		21 Sep 2023	 	
Machine Hours		3480	 	
Oil Hours		3480	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
A				
OIL C	ONDITION			
Visc @ 40°C	cSt	288	 	
طم				
CONT	AMINATION	AN .		
	AMINAIN			
Silicon	ppm	O 3067	 	
Sodium	ppm	23	 	
Potassium	ppm	82	 	
(Ö WEAL	R METALS			
	R ME I ALS			
Iron	ppm	0 7139	 	
Copper				
	ppm	4	 	
Lead	ppm	2	 	
Lead Tin		○ 2 ○ 1		
Lead Tin Aluminum	ppm ppm ppm	② 2 ③ 1 ③ 302	 	
Lead Tin Aluminum Chromium	ppm ppm	2 0 1 0 302 0 91	 	
Lead Tin Aluminum Chromium Molybdenum	ppm ppm ppm	2 1 302 91 8	 	
Lead Tin Aluminum Chromium Molybdenum Nickel	ppm ppm ppm ppm	2 1 302 91 8 32	 	
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium	ppm ppm ppm ppm ppm ppm ppm	2 1 302 91 8 32 49	 	
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver	ppm ppm ppm ppm ppm	2	 	
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese	ppm ppm ppm ppm ppm ppm ppm	2	 	
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver	ppm ppm ppm ppm ppm ppm ppm	2	 	
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium	ppm ppm ppm ppm ppm ppm ppm ppm	2	 	
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium ADDI	ppm ppm ppm ppm ppm ppm ppm ppm	© 2 © 1 © 302 © 91 © 8 © 32 © 49 © 0 © 57 3	 	
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium Calcium	ppm	2 0 1 0 302 0 91 0 8 0 32 0 49 0 0 57 3	 	
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium ADDI	ppm	© 2 © 1 © 302 © 91 © 8 © 32 © 49 © 0 © 57 3		
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium Calcium	ppm	2 0 1 0 302 0 91 0 8 0 32 0 49 0 0 57 3		
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium Calcium Magnesium	ppm	2 0 1 0 302 9 1 0 8 0 32 0 49 0 57 3 3		
Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium Calcium Magnesium Zinc	ppm	2 01 302 91 8 32 49 0 57 3		



LIEBHERR EQUIPMENT SOURCE

4100 CHESTNUT AVENUE NEWPORT NEWS, VA US 23607

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T:

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Diagnosis

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. The oil viscosity is higher than normal.

Depot: **LIEBHERRUS** Unique No: 10684320 Signed: Angela Borella **Report Date:** 10 Oct 2023

CONSTRUCTION EQUIPMENT





GRAPHS

