WEAR CONTAMINATION FLUID CONDITION

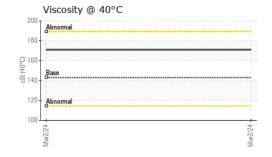
NORMAL NORMAL NORMAL

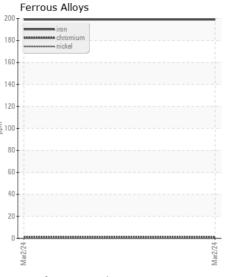
Machine Io

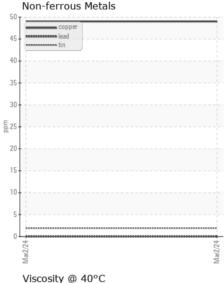
## LIEBHERR LH0258885 (S/N NOT GIVEN)

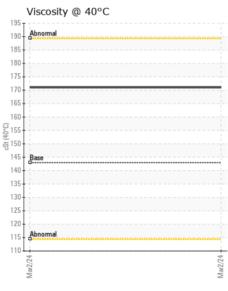
Swing Drive

GEAR OIL SAE 80W90 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.	Sample Number		Client Info		LH0258885		
	Sample Date		Client Info		02 Mar 2024		
	Machine Age	hrs	Client Info		1517		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	nnm	ASTM D5185m	~400	199		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>10	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>25	0		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		49		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m		0		
	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	>50	<1		
	Potassium	ppm		>20	0		
	Water			>0.2	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	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	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	1		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	400	38		
	Barium	ppm	ASTM D5185m	200	0		
	Molybdenum	ppm	ASTM D5185m	12	0		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m	12	0		
	Calcium	ppm	ASTM D5185m	150	78		
	Phosphorus	ppm	ASTM D5185m	1650	2244		
	Zinc	ppm	ASTM D5185m	125	43		
	Sulfur	ppm	ASTM D5185m	22500	30392		
	Visc @ 40°C	cSt	ASTM D445	143	171		
Report Id: LFC0008 [WUSCAR] 06124409 (Generated: 03/25/2024 12:53:47) Rev: 1			Co	ntact/Lo	cation: CHR	IS BARTNIK	( - L EC0008











Certificate L2367

Laboratory Sample No.

Lab Number : 06124409 Unique Number: 10938560 Test Package : CONST

: LH0258885

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Mar 2024 : 22 Mar 2024 **Tested** 

: 22 Mar 2024 - Wes Davis Diagnosed

AMERICAN STATE EQUIPMENT CO. 2400 NORTH 14TH AVENUE

WAUSAU, WI US 54401

Contact: CHRIS BARTNIK cbartnik@amstate.com T: (715)675-6900

F: (715)675-9748

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)