

WEAR CONTAMINATION FLUID CONDITION

NORMAL

MARGINAL

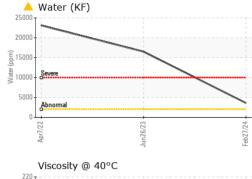
NORMAL

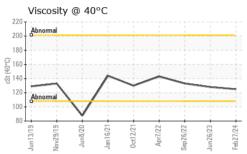


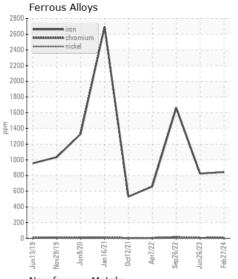
## LIEBHERR A934C-HD-LI C-49 (S/N 045168-1006)

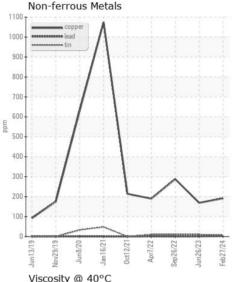
Swing Drive

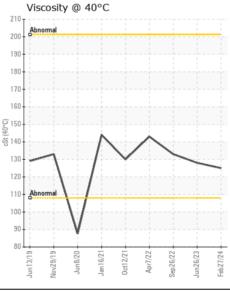
KENDALL LIMITED 80W90 ( (	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number	OOW	Client Info	Little	WC0899809	WC0819348	WC0692220
	Sample Date		Client Info		27 Feb 2024	26 Jun 2023	26 Sep 2022
	Machine Age	hrs	Client Info		27156	26065	24774
	Oil Age	hrs	Client Info		1091	1291	970
	Filter Age	hrs	Client Info		0	0	970
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Not Changd	Changed	Changed
	Sample Status				MARGINAL	SEVERE	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>1450	842	825	<u>^</u> 1661
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	6	5	15
	Nickel	ppm	ASTM D5185m	>3	1	1	1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m	>4	<1	<1	3
	Lead	ppm	ASTM D5185m	>4	2	<1	<1
	Copper	ppm	ASTM D5185m		191	169	288
	Tin	ppm	ASTM D5185m	>38	7	10	10
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>15	8	6	8
There is a light concentration of water present in the oil.	Potassium	ppm	ASTM D5185m	>20	0	5	1
	Water	%	ASTM D6304	>0.2	<b>△</b> 0.360	<b>▲</b> 1.65	
	ppm Water	ppm	ASTM D6304		<u> </u>	<b>1</b> 6500	
	Silt	scalar	*Visual	NONE	NONE	▲ HEAVY	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML NORML	NORML
	Odor Emulaified Water	scalar	*Visual	NORML	NORML		NORML
<u></u>	Emulsified Water	Sudiai	*Visual	>0.2	0.2% 	▲ 0.2%	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	<1	0
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		40	69	233
	Barium	ppm	ASTM D5185m		3	0	0
	Molybdenum	ppm	ASTM D5185m		2	<1 -	2
	Manganese	ppm	ASTM D5185m		6	7	13
	Magnesium	ppm	ASTM D5185m		4	4	10
	Calcium	ppm	ASTM D5185m		55 642	13	36
	Phosphorus	ppm	ASTM D5185m		642	723	1713
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		35 10027	40 21116	37 27985
	Visc @ 40°C	ppm cSt	ASTM D5165III		19927 125	128	133
	V130 W 40 0	COL	CPPU IVI UM		120	120	100















Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06105547

Unique Number : 10903777

: WC0899809 Received **Tested** 

Diagnosed

: 04 Mar 2024

: 04 Mar 2024 - Don Baldridge

: 29 Feb 2024

Contact: BILL PITTL JR parts@frankliniron.com

FRANKLIN IRON & METAL CORP

T: (937)253-8184 F:

1939 EAST 1ST ST

DAYTON, OH

US 45403

Test Package : CONST ( Additional Tests: KF )

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)