WEAR
CONTAMINATION
FLUID CONDITION

NORMAL NORMAL



Machine Id **LIEBHERR A934C 061188-1419**

Front Left Wheel Hub GEAR OIL SAE 80W90 (3 LTR)					-,		
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		LH0272401	LH0253887	LH0253901
	Sample Date		Client Info		30 Jan 2024	21 Sep 2023	13 Jul 2023
	Machine Age	hrs	Client Info		28174	27222	26744
	Oil Age	hrs	Client Info		1000	0	500
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>500	17	10	11
	Chromium	ppm	ASTM D5185m		<1	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>3	1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m	>15	2	0	0
	Lead	ppm	ASTM D5185m	>4	1	0	0
	Copper	ppm	ASTM D5185m	>100	1	0	<1
	Tin	ppm	ASTM D5185m	>3	1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>65	2	<1	0
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	2	1
	Water		WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	0	2	2
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	400	8	9	10
The container of the decoptable for the time in correct.	Barium	ppm	ASTM D5185m	200	<1	0	0
	Molybdenum	ppm	ASTM D5185m	12	2	2	2
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m	12	6	8	9
	Calcium	ppm	ASTM D5185m	150	40	32	33
	Phosphorus	ppm	ASTM D5185m	1650	939	981	1416
	Zinc	ppm	ASTM D5185m		20	20	15
	Culfur	nnm	ACTM DE10Em	22500	26105	22602	22027

Sulfur

Visc @ 40°C

ppm ASTM D5185m 22500

ASTM D445 143

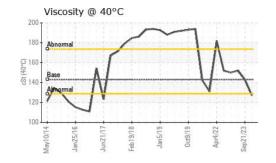
26195

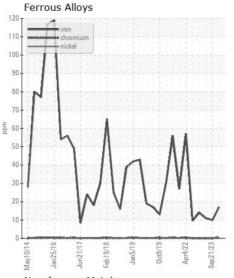
127

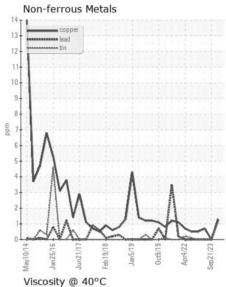
32827

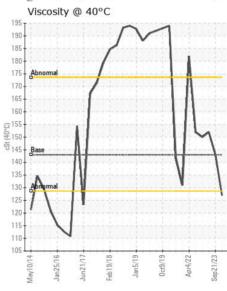
23602

143











Certificate L2367

Laboratory Sample No.

Lab Number : 06159929 Unique Number : 10995352

: LH0272401 Test Package : CONST

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Tested Diagnosed

: 24 Apr 2024 : 25 Apr 2024

: 25 Apr 2024 - Wes Davis

MINNEAPOLIS, MN US 55411 Contact: CHRIS GILMER

2800 PACIFIC ST N

NORTHERN METAL RECYCLING

chris.gilmer@emrgroup.com T: (612)305-7338

* - 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: