

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id LIEBHERR A934C 061188-1419 Component Front Right Wheel Hub

GEAR OIL SAE 80W90 (3 LTR)

RECOMMENDATION

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.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

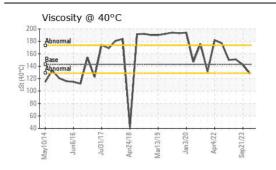
FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0272102	LH0253885	LH0253908
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
Iron	ppm	ASTM D5185m	>500	28	16	21
Chromium	ppm	ASTM D5185m	>4	<1	0	0
Nickel	ppm	ASTM D5185m	>3	1	<1	0
Titanium	ppm	ASTM D5185m	-	<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>15	2	<1	<1
Lead	ppm	ASTM D5185m	>4	1	0	0
Copper	ppm	ASTM D5185m	>100	4	0	<1
Tin	ppm	ASTM D5185m	>3	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>65	2	<1	<1
Potassium	ppm	ASTM D5185m	>20	3	4	3
Water	ppiii	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
Sodium	ppm	ASTM D5185m	>170	0	2	2
Boron	ppm	ASTM D5185m	400	8	14	14
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	2	<1	2
Manganese	ppm	ASTM D5185m	1	1	0	<1
Magnesium	ppm	ASTM D5185m	12	6	13	9
Calcium	ppm	ASTM D5185m	150	29	40	37
	ppm	ASTM D5185m	1650	909	1133	1398
Phosphorus		. to the Dottoolli	1000	000	1100	1000
Phosphorus Zinc		ASTM D5185m	125	13	19	21
Zinc	ppm	ASTM D5185m	125 22500	13 25781	19 25767	21 33325
		ASTM D5185m ASTM D5185m ASTM D445	125 22500 143	13 25781 128	19 25767 142	21 33325 151

Report Id: NORMINLH [WUSCAR] 06159927 (Generated: 04/26/2024 10:46:35) Rev: 1

Contact/Location: CHRIS GILMER - NORMINLH



Ferrous Alloys 150 140 130 120 110 100 90 80 bpm 70 60 50 40 30 20 10 0 lan3/20 Apr4/22 p21/23 Apr24/18 Mar13/1 May10/1 Jun6/1 Non-ferrous Metals 10 ppm an3/20 Mar13/19 C Pro Mav10/1 Apr24/ Viscosity @ 40°C 200 190 180 170 160 150 140 100 90 80 70 60 50 40 Apr4/22 . Jul31/17 Jan3/20 ep21/23 Jun6/16 Apr24/18 Mar13/19 Mav10/14



Sample No. Received 2800 PACIFIC ST N : LH0272102 : 24 Apr 2024 Lab Number : 06159927 Tested : 25 Apr 2024 MINNEAPOLIS, MN Unique Number : 10995350 Diagnosed : 25 Apr 2024 - Wes Davis US 55411 Test Package : CONST Contact: CHRIS GILMER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. chris.gilmer@emrgroup.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (612)305-7338 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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

Laboratory

Contact/Location: CHRIS GILMER - NORMINLH Page 2 of 2

NORTHERN METAL RECYCLING

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