

OIL ANALYSIS REPORT

Sample Rating Trend

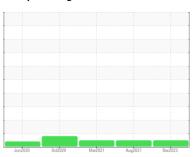
NORMAL



LIEBHERR Machine Id LIEBHERR A934CHD 060316-1419

Component
Rear Left Wheel Hub

GEAR OIL SAE 80W90 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

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

SAMPLE INFORMA	NOITA	method				history2
Sample Number		Client Info		DJJ0011209	DJJ0000792	DJJ0000952
Sample Date		Client Info		04 Dec 2023	03 Aug 2021	01 Mar 2021
Machine Age	nrs	Client Info		16052	14100	13641
Oil Age	nrs	Client Info		0	1000	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron p	opm	ASTM D5185m	>450	36	30	29
	opm	ASTM D5185m	>4	<1	<1	<1
Nickel p	opm	ASTM D5185m	>2	0	<1	<1
Titanium p	opm	ASTM D5185m		0	<1	<1
Silver p	opm	ASTM D5185m		0	0	0
Aluminum p	opm	ASTM D5185m	>15	1	2	2
Lead p	opm	ASTM D5185m	>4	0	<1	<1
Copper	opm	ASTM D5185m	>75	53	42	45
Tin p	opm	ASTM D5185m		0	0	0
Antimony p	opm	ASTM D5185m	>4		0	0
Vanadium p	opm	ASTM D5185m		0	0	0
Cadmium p	opm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron p	opm	ASTM D5185m	400	38	48	41
Barium p	opm	ASTM D5185m	200	0	0	0
Molybdenum p	opm	ASTM D5185m	12	11	13	13
Manganese p	opm	ASTM D5185m		2	1	1
Magnesium p	opm	ASTM D5185m	12	68	86	93
Calcium	opm	ASTM D5185m	150	296	371	429
Phosphorus p	opm	ASTM D5185m	1650	487	507	558
Zinc	opm	ASTM D5185m	125	216	245	304
Sulfur p	opm	ASTM D5185m	22500	13288	11706	9960
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon p	opm	ASTM D5185m	>60	6	3	4
- "	opm	ASTM D5185m		<1	<1	<1
Potassium p	opm	ASTM D5185m	>20	0	4	0
VISUAL		method	limit/base	current	history1	history2
White Metal s	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Precipitate s	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris s	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt s	scalar	*Visual	NONE	NONE	NONE	NONE
		43.71	NORM			

Appearance

Emulsified Water

Odor

scalar

scalar

*Visual

*Visual

scalar *Visual

scalar *Visual

NORML

NORML

>0.2

NORML

NORML

NEG

NEG

NORML

NORML

NEG

NORML

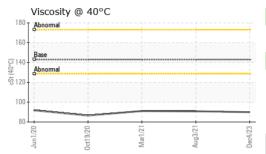
NORML

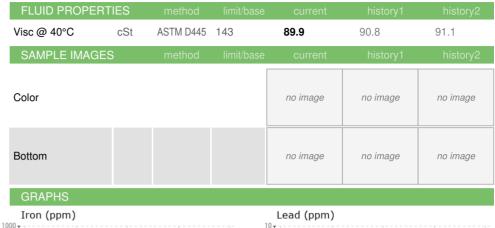
NEG

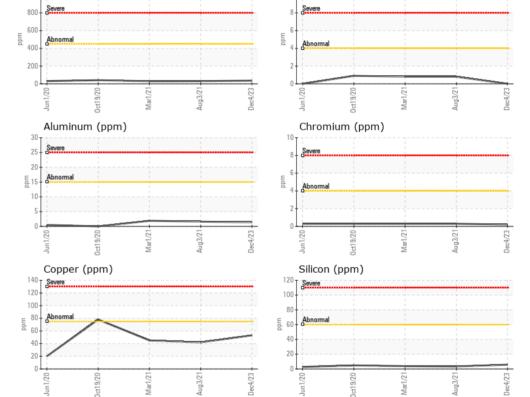
RYANEGWDEN - MEEGONNC



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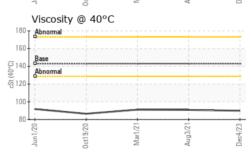


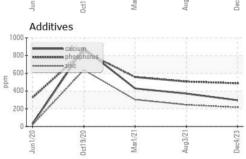




: 08 Dec 2023

: 12 Dec 2023







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : MOBCE

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DJJ0011209 Received : 06029791

Diagnosed : 10779582 Diagnostician : Don Baldridge **METAL RECYCLING SERVICES - MONROE**

P.O. BOX 812 MONROE, NC US 28111

Contact: RYAN BOWDEN

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)

F: (704)238-0755