



LIEBHERR R936 040489-1148

Left Final Drive

LIEBHERR HYPOID 85W-140 EP (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

UID CONDITION

The oil viscosity is lower than normal. Confirm oil type. The condition of the oil is acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0229681	LH0267370	LH0244005
Sample Date		Client Info		21 Mar 2024	30 Aug 2023	21 May 2023
Machine Age	hrs	Client Info		9014	8524	8050
Oil Age	hrs	Client Info		1000	474	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Change
Filter Changed		Client Info		Not Changd	Not Changd	Not Change
Sample Status				ATTENTION	ATTENTION	NORMAL
			500	70	105	101
Iron	ppm	ASTM D5185m	>500	70	125	121
Chromium	ppm	ASTM D5185m	>10	<1	2	2
Nickel	ppm	ASTM D5185m	>10	0	<1	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	4	4
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>50	0	<1	0
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	17	29	28
Potassium	ppm	ASTM D5185m	>20	0	1	2
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	LIGHT	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
Odor	scalar	*Visual	NORML	NORML	NORML	NORM
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		3	0	1
Boron	ppm	ASTM D5185m	<1	0	0	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m	0	<1	2	1
Magnesium	ppm	ASTM D5185m	<1	<1	2	<1
Calcium	ppm	ASTM D5185m	17	82	18	9
Phosphorus	ppm	ASTM D5185m	1089	2262	2149	1300
Zinc	ppm	ASTM D5185m	4	24	6	<1
Sulfur	ppm	ASTM D5185m	23480	31923	31133	34920
Vice @ 40°C	oQt	ASTM D445	275	191	106	262

Visc @ 40°C

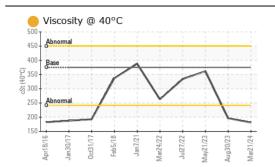
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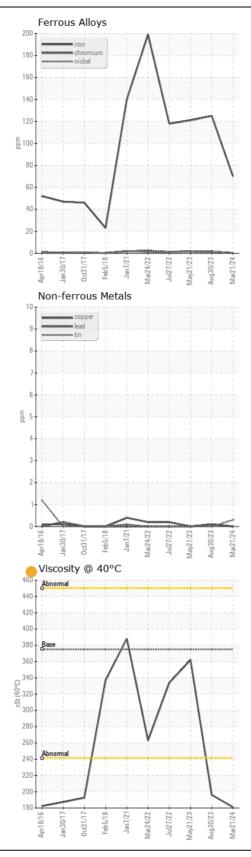
ASTM D445 375

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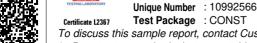
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: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Apr 2024 : 24 Apr 2024 Diagnosed : 25 Apr 2024 - Jonathan Hester

ACECO 10119 RESIDENCY ROAD MANASSAS, VA US 20110 Contact: RON BROCK



Laboratory

Sample No.

Lab Number : 06157143

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

: LH0229681

* - 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)

Tested

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