WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL



LIEBHERR LH110 1227-155752

Component Front Right Wheel Hub

GEAR OIL SAE 80W90 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0280577	LH0280566	
	Sample Date		Client Info		20 Feb 2024	11 Jan 2024	
	Machine Age	hrs	Client Info		1022	507	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>650	46	32	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>4	0	0	
	Nickel	ppm	ASTM D5185m	>4	0	<1	
	Titanium	ppm	ASTM D5185m	>4	0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>25	<1	<1	
	Lead	ppm	ASTM D5185m	>4	0	0	
	Copper	ppm	ASTM D5185m	>60	0	0	
	Tin	ppm	ASTM D5185m	>4	0	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	10	8	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	2	
	Water		WC Method	>0.2	NEG	NEG	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	3	4	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	400	4	5	
	Barium	ppm	ASTM D5185m	200	0	<1	
	Molybdenum	ppm	ASTM D5185m	12	0	0	
	Manganese	ppm	ASTM D5185m		1	1	
	Magnesium	ppm	ASTM D5185m		0	3	
	Calcium	ppm	ASTM D5185m		132	152	
	Phosphorus	ppm	ASTM D5185m		1448	1273	
	Zinc	ppm	ASTM D5185m		13	25	
	Sulfur	ppm	ASTM D5185m		18560	16443	
	Visc @ 40°C	cSt	ASTM D445	143	173	173	







Certificate L2367

Laboratory Sample No.

Lab Number : 06100515 Unique Number : 10898745 Test Package : MOBCE

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : LH0280577 : 26 Feb 2024 : 27 Feb 2024 **Tested**

: 27 Feb 2024 - Wes Davis Diagnosed

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)

US 35601 Contact: CHIP OAKES

KINDER MORGAN

4301 IVERSON

TRINITY, AL

T: (256)350-0006

F: (256)355-5250