

WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL NORMAL



LIEBHERR L556 046708-1332

Front Differential Fluid GEAR OIL SAE 80W90 (GAL	1						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	OOW	Client Info	LITTIQ/ QIT	LH0268189	LH0245009	LH0207738
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		09 Feb 2024	09 Feb 2023	23 Nov 2021
	Machine Age	hrs	Client Info		10214	9080	7922
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	0	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>1000	210	89	66
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	2	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m		3	0	0
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>25	3	<1	3
	Lead	ppm	ASTM D5185m	>5	0	0	0
	Copper	ppm	ASTM D5185m	>100	23	11	12
	Tin	ppm	ASTM D5185m	>10	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>100	4	2	0
Moderate concentration of visible dirt/debris present in the oil.	Potassium	ppm	ASTM D5185m	>20	1	<1	0
	Water		WC Method	>.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor		*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	4	2
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		19	0	11
	Barium	ppm	ASTM D5185m		13	1	0
	Molybdenum	ppm	ASTM D5185m	12	20	5	4
	Manganese	ppm	ASTM D5185m	10	4	2	2
	Magnesium	ppm	ASTM D5185m		50	1	0
	Calcium	ppm	ASTM D5185m		157	32	14
	Phosphorus	ppm	ASTM D5185m		1642	2092	2555
	Zinc	ppm	ASTM D5185m	125	101	26	17

Sulfur

Visc @ 40°C

27439

184

46255

122

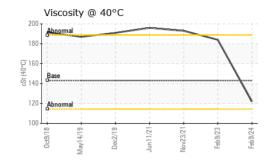
ASTM D5185m 22500

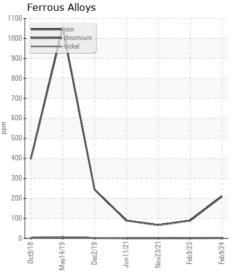
ASTM D445 143

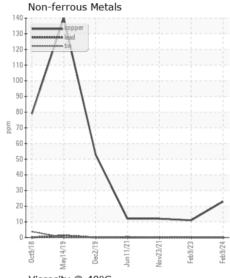
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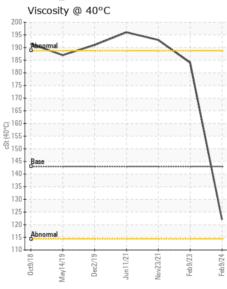
cSt

25056











Certificate L2367

Laboratory Sample No.

: LH0268189 **Lab Number** : 06089155 Unique Number: 10876600 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Feb 2024 **Tested**

: 15 Feb 2024 : 16 Feb 2024 - Jonathan Hester Diagnosed

AMERICAN STATE EQUIPMENT CO.

2055 SOUTH 108TH STREET

MILWAUKEE, WI US 53227

T: (414)234-0854

F: (414)541-1892

Contact: RAY SCHMIDT RSCHMIDT@AMSTATE.COM

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)

Report Id: LEC0007 [WUSCAR] 06089155 (Generated: 02/16/2024 17:04:33) Rev: 1

Contact/Location: RAY SCHMIDT - LEC0007