

WEAR
CONTAMINATION
FLUID CONDITION

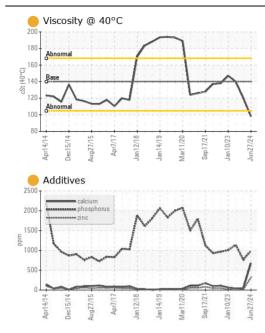
NORMAL NORMAL ATTENTION

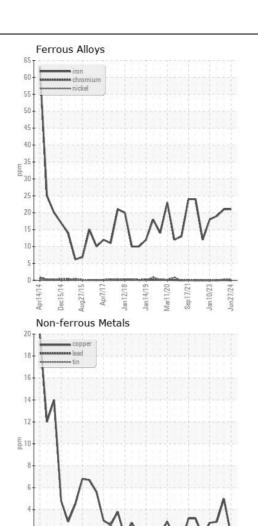


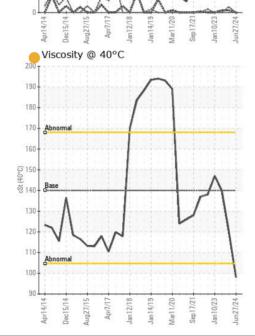
Machine Id **LIEBHERR A934C 064064-1007**

Rear Differential

CHEVRON DELO GEAR ESI OIL	_ 80W90 (- GAL	_)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		LH0268383	LH0272763	LH0254763
	Sample Date		Client Info		27 Jun 2024	21 Dec 2023	23 Jun 2023
	Machine Age	hrs	Client Info		26934	25949	24973
	Oil Age	hrs	Client Info		0	0	0
	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				ATTENTION	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>190	21	21	19
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>2	0	<1	0
	Nickel	ppm	ASTM D5185m	>2	<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>5	<1	1	<1
	Lead	ppm	ASTM D5185m	>15	0	<1	<1
	Copper	ppm	ASTM D5185m	>70	2	5	3
	Tin	ppm	ASTM D5185m	>2	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4	2	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	<1	2
	Water		WC Method	>.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	>.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	0	0
The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.	Boron	ppm	ASTM D5185m	15	0	3	6
	Barium	ppm	ASTM D5185m	0	0	1	2
	Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		7	7	9
	Calcium	ppm	ASTM D5185m		677	44	41
	Phosphorus	ppm	ASTM D5185m		990	767	1135
	Zinc	ppm	ASTM D5185m		310	11	38
	Sulfur	ppm	ASTM D5185m		23337	24817	30900
Depart Id. I FC0000 [MILICCAD] 00007490 (Conserted: 07/17/0004-17/19/07) Devis 1	Visc @ 40°C	cSt	ASTM D445	14U	98.0	120	140











Certificate L2367

Laboratory Sample No.

: LH0268383 Lab Number : 06237183 Unique Number : 11126017 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024 **Tested** : 17 Jul 2024

Diagnosed : 17 Jul 2024 - Don Baldridge

AMERICAN STATE EQUIPMENT CO. 2400 NORTH 14TH AVENUE

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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)

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