



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR A934C-HD-ERC-LI C-50 (S/N 060798-1419)
Component
Transmission
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (4 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0920311	WC0809695	WC0692213
Sample Date		Client Info		16 Apr 2024	08 Jul 2023	01 Feb 2023
Machine Age	hrs	Client Info		23905	22309	21367
Oil Age	hrs	Client Info		2538	942	2008
Filter Age	hrs	Client Info		2538	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>148	55	13	15
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		61	32	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>5	1	3	3
Lead	ppm	ASTM D5185m	>203	0	0	0
Copper	ppm	ASTM D5185m	>520	131	45	63
Tin	ppm	ASTM D5185m	>7	5	1	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

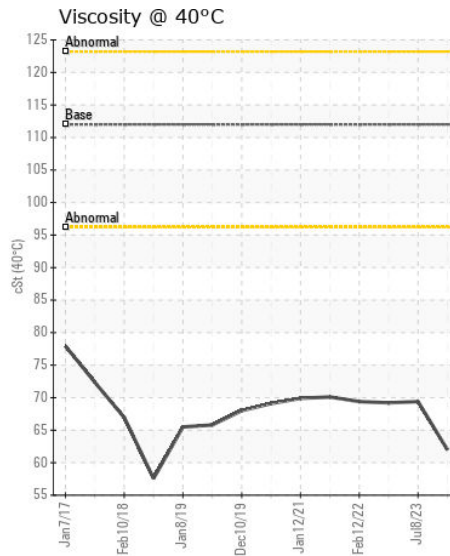
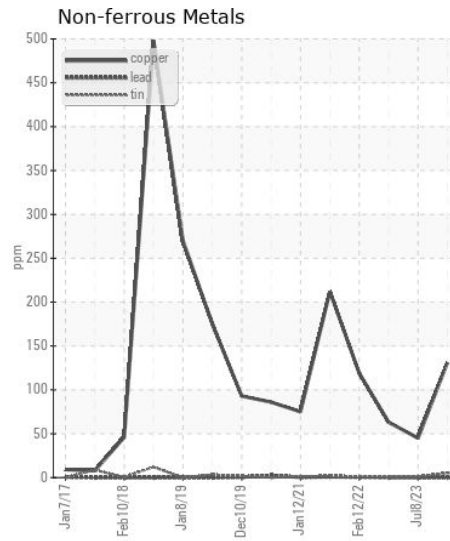
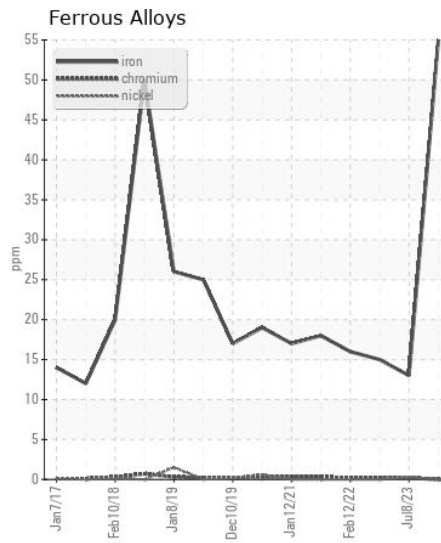
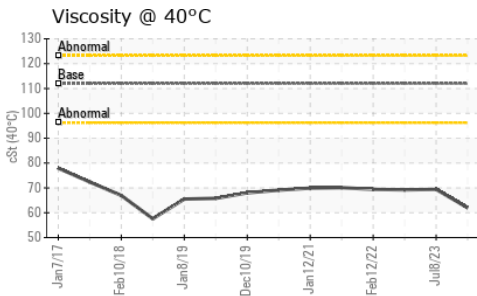
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	11	5	7
Potassium	ppm	ASTM D5185m	>20	0	2	0
Water		WC Method	>0.1	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	2	1
Boron	ppm	ASTM D5185m		216	312	363
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		33	65	101
Manganese	ppm	ASTM D5185m		4	1	1
Magnesium	ppm	ASTM D5185m		436	519	571
Calcium	ppm	ASTM D5185m		1529	1522	1373
Phosphorus	ppm	ASTM D5185m	760	920	859	686
Zinc	ppm	ASTM D5185m	800	1014	990	784
Sulfur	ppm	ASTM D5185m	3000	3746	3686	2875
Visc @ 40°C	cSt	ASTM D445	112	62.0	69.4	69.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0920311
Lab Number : 06160814
Unique Number : 10996237
Test Package : CONST
Received : 25 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 29 Apr 2024 - Don Baldrige

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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)