



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR A934C-HD-LI C-48 (S/N 045988-1007)
Component
Transmission
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (3 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0920296	WC0794444	WC0692234
Sample Date		Client Info		26 Jun 2024	23 Jun 2023	29 Aug 2022
Machine Age	hrs	Client Info		26123	25091	23967
Oil Age	hrs	Client Info		2000	1124	929
Filter Age	hrs	Client Info		2000	0	929
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>148	65	65	56
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		35	26	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>5	<1	0	2
Lead	ppm	ASTM D5185m	>203	2	<1	<1
Copper	ppm	ASTM D5185m	>520	204	217	342
Tin	ppm	ASTM D5185m	>7	5	6	6
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

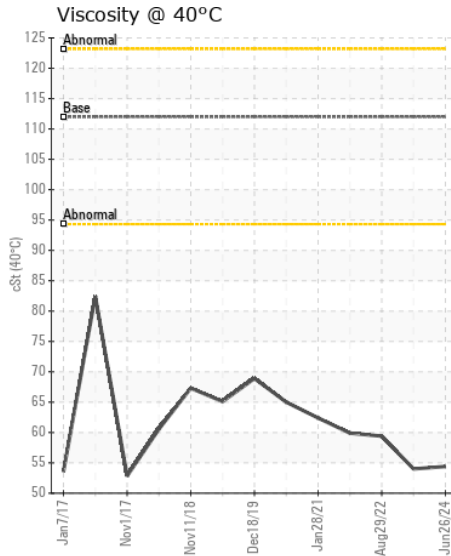
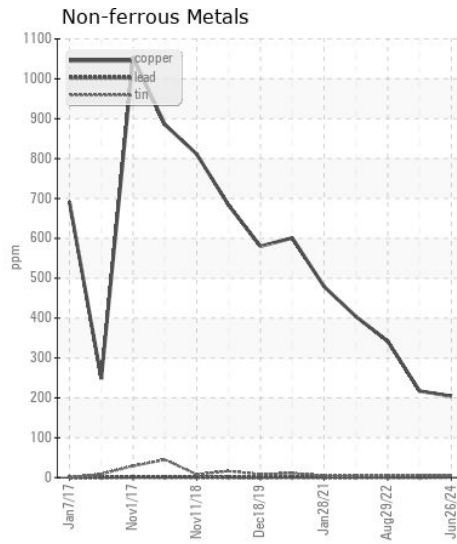
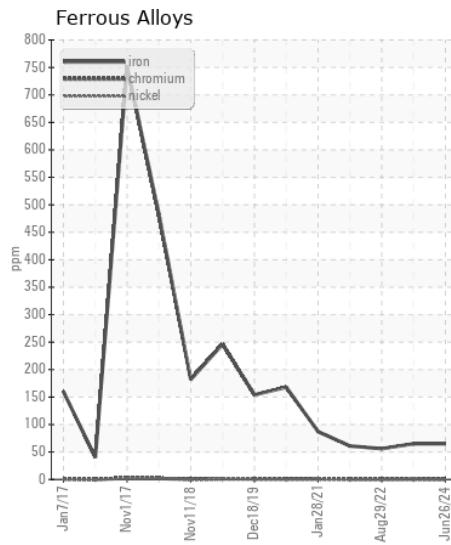
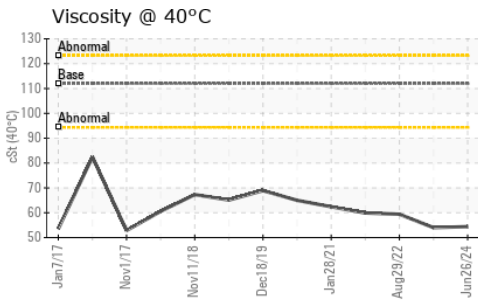
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>15	5	6	6
Potassium	ppm	ASTM D5185m	>20	1	2	2
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 fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		3	0	0
Boron	ppm	ASTM D5185m		75	114	214
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		6	15	63
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m		171	191	311
Calcium	ppm	ASTM D5185m		734	732	838
Phosphorus	ppm	ASTM D5185m	760	612	580	572
Zinc	ppm	ASTM D5185m	800	657	684	615
Sulfur	ppm	ASTM D5185m	3000	2290	2023	1877
Visc @ 40°C	cSt	ASTM D445	112	54.4	54.0	59.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0920296
Lab Number : 06223916
Unique Number : 11102113
Test Package : CONST
Received : 28 Jun 2024
Tested : 29 Jun 2024
Diagnosed : 30 Jun 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)