



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
(A492741)
Machine Id
2324
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (--- GAL)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0829119	WC0829121	---
Sample Date		Client Info		02 Feb 2024	12 Sep 2023	---
Machine Age	mls	Client Info		102123	65943	---
Oil Age	mls	Client Info		0	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

Cylinder, crank, or cam shaft wear is indicated.

Iron	ppm	ASTM D5185m	>90	▲ 106	23	---
Chromium	ppm	ASTM D5185m	>20	▲ 14	3	---
Nickel	ppm	ASTM D5185m	>2	1	0	---
Titanium	ppm	ASTM D5185m	>2	<1	0	---
Silver	ppm	ASTM D5185m	>2	<1	<1	---
Aluminum	ppm	ASTM D5185m	>20	▲ 17	16	---
Lead	ppm	ASTM D5185m	>40	3	3	---
Copper	ppm	ASTM D5185m	>330	2	6	---
Tin	ppm	ASTM D5185m	>15	2	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

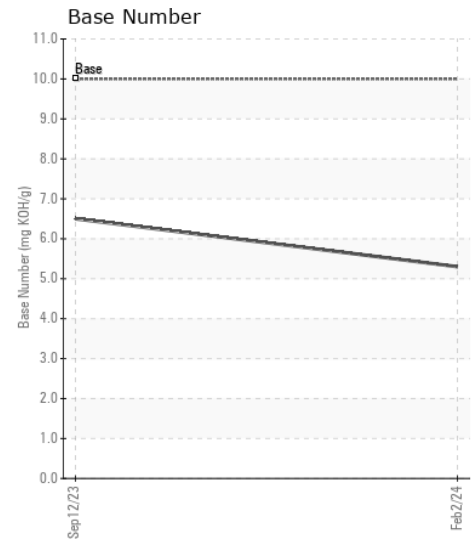
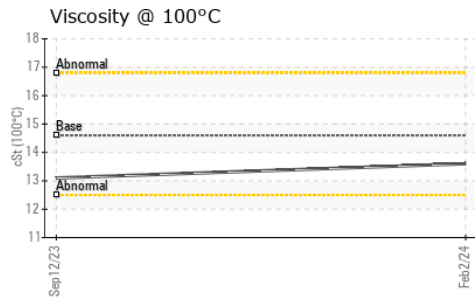
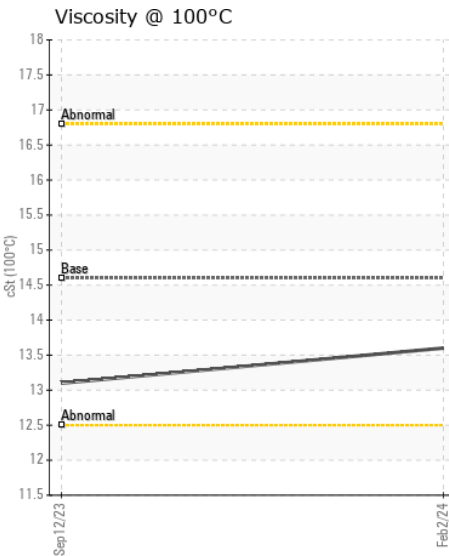
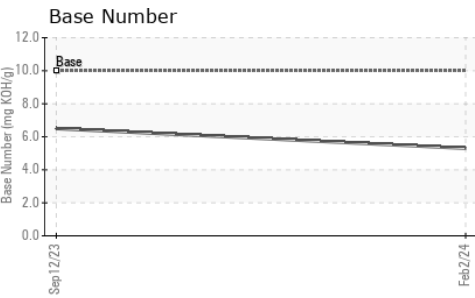
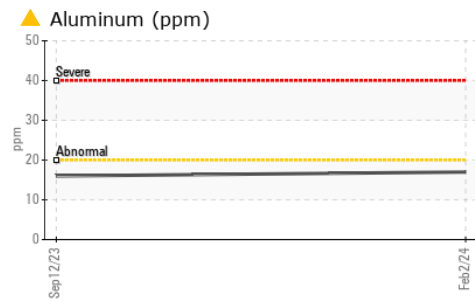
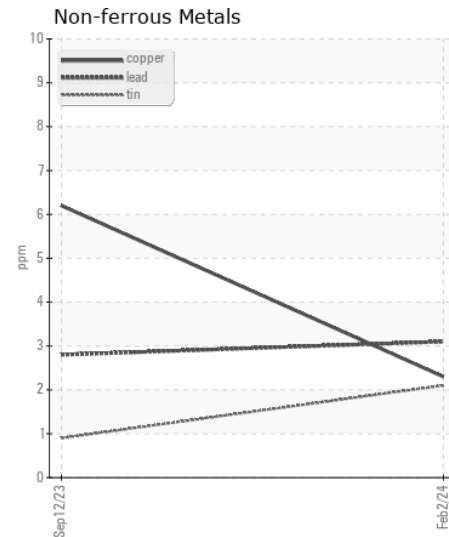
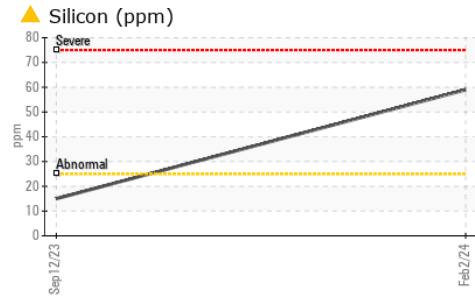
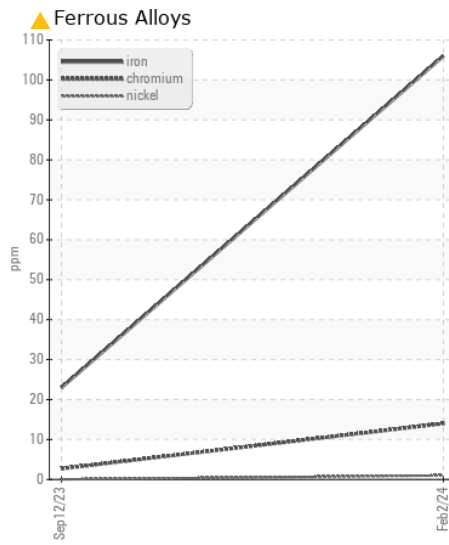
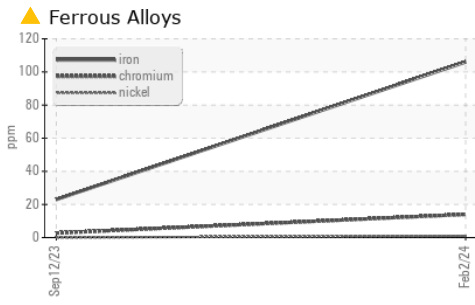
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>25	▲ 59	15	---
Potassium	ppm	ASTM D5185m	>20	24	50	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>6	0.3	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	11.1	10.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.2	23.6	---
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

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	2	---
Boron	ppm	ASTM D5185m		114	138	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		123	116	---
Manganese	ppm	ASTM D5185m		3	2	---
Magnesium	ppm	ASTM D5185m		673	691	---
Calcium	ppm	ASTM D5185m		1533	1589	---
Phosphorus	ppm	ASTM D5185m	760	728	605	---
Zinc	ppm	ASTM D5185m	800	878	848	---
Sulfur	ppm	ASTM D5185m	3000	2415	2818	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.8	20.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	5.3	6.5	---
Visc @ 100°C	cSt	ASTM D445	14.6	13.6	13.1	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0829119 **Received** : 13 Feb 2024
Lab Number : 06087966 **Tested** : 14 Feb 2024
Unique Number : 10875411 **Diagnosed** : 15 Feb 2024 - Don Baldrige
Test Package : FLEET

Ergon Trucking Inc. - SHE195
 5913 Highway 157
 Haughton, LA
 US 71037
 Contact: SIDNEY HOLLACE

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)

T:
F: