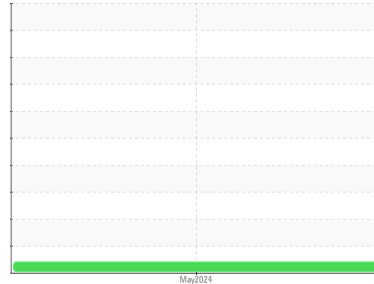




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id

2411

Component

Diesel Engine

Fluid

CHEVRON DELO 400 SDE SAE 15W40 (--- GAL)

DIAGNOSIS

● Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

● Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0829094	---	---
Sample Date	Client Info		08 May 2024	---	---
Machine Age	mls	Client Info	33797	---	---
Oil Age	mls	Client Info	33797	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			ATTENTION	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	57	---
Chromium	ppm	ASTM D5185m	>20	2	---
Nickel	ppm	ASTM D5185m	>4	1	---
Titanium	ppm	ASTM D5185m		<1	---
Silver	ppm	ASTM D5185m	>3	<1	---
Aluminum	ppm	ASTM D5185m	>20	56	---
Lead	ppm	ASTM D5185m	>40	4	---
Copper	ppm	ASTM D5185m	>330	34	---
Tin	ppm	ASTM D5185m	>15	4	---
Vanadium	ppm	ASTM D5185m		<1	---
Cadmium	ppm	ASTM D5185m		<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		32	---
Barium	ppm	ASTM D5185m		5	---
Molybdenum	ppm	ASTM D5185m		9	---
Manganese	ppm	ASTM D5185m		6	---
Magnesium	ppm	ASTM D5185m		649	---
Calcium	ppm	ASTM D5185m		1364	---
Phosphorus	ppm	ASTM D5185m	760	714	---
Zinc	ppm	ASTM D5185m	800	858	---
Sulfur	ppm	ASTM D5185m	3000	2977	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	47	---
Sodium	ppm	ASTM D5185m		4	---
Potassium	ppm	ASTM D5185m	>20	169	---
Fuel	%	ASTM D3524	>5	0.5	---

INFRA-RED

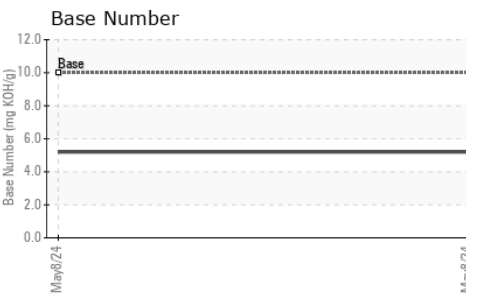
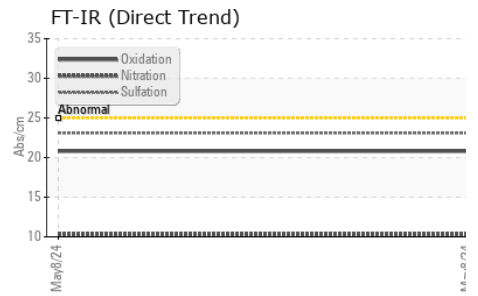
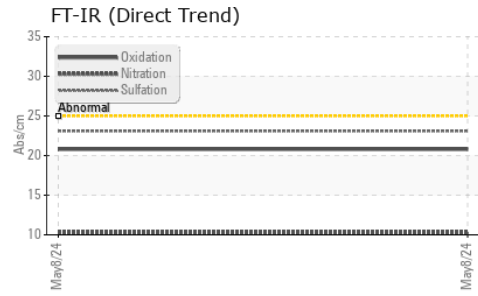
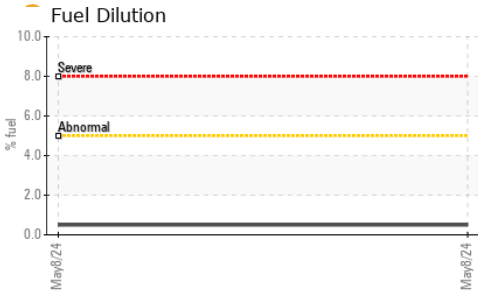
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	10.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	5.2	---



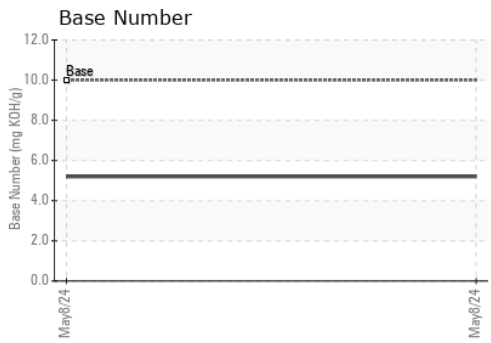
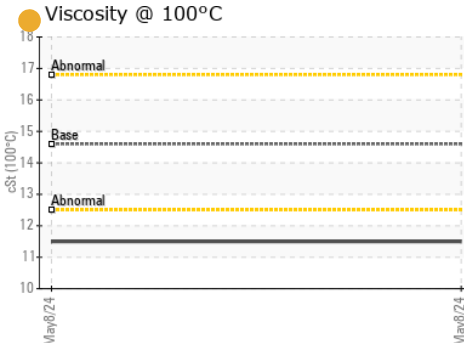
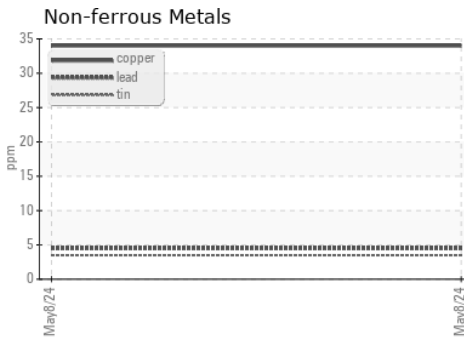
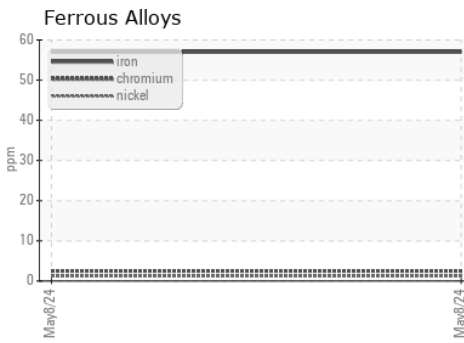
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.6	● 11.5	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0829094 **Received** : 13 May 2024
Lab Number : 06178201 **Tested** : 17 May 2024
Unique Number : 11029527 **Diagnosed** : 17 May 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Ergon Trucking Inc. - SAL198
 211 Production Drive
 Sulphur, LA
 US 70663
 Contact: Donald Daigle
 Donald.daigle@ergon.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)