



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
13741
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 SDE SAE 15W40 (--- QTS)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0913870	WC0913845	---
Sample Date		Client Info		13 Mar 2024	13 Mar 2024	---
Machine Age	mls	Client Info		17415	1196	---
Oil Age	mls	Client Info		10477	1196	---
Filter Age	mls	Client Info		10477	1196	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	SEVERE	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	33	20	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	16	5	---
Lead	ppm	ASTM D5185m	>40	<1	<1	---
Copper	ppm	ASTM D5185m	>330	7	10	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

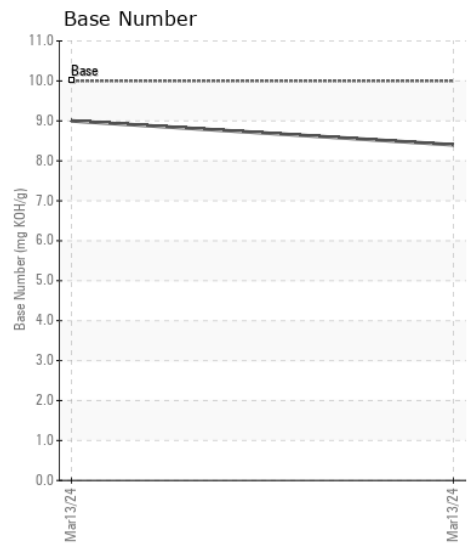
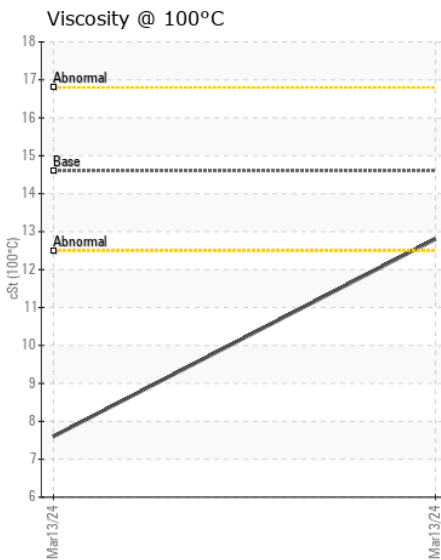
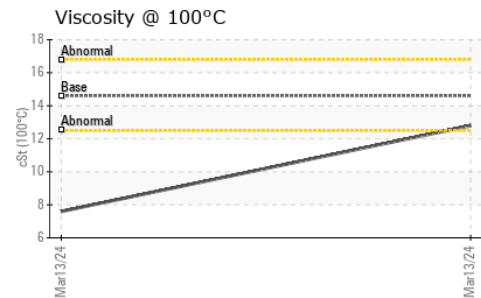
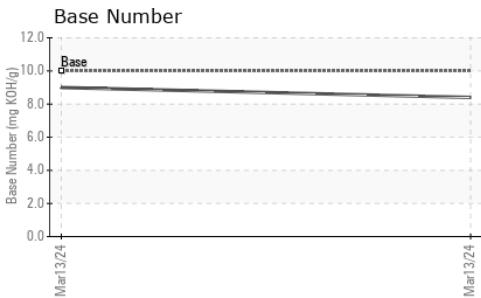
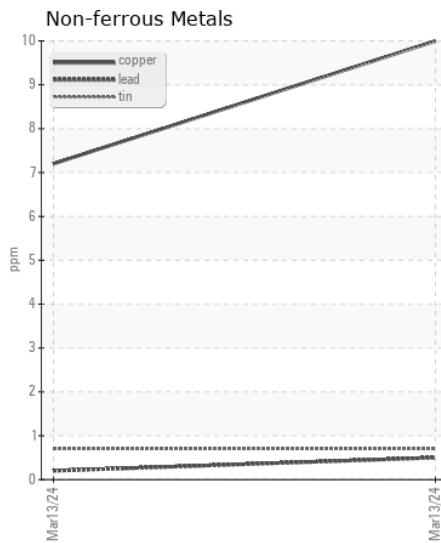
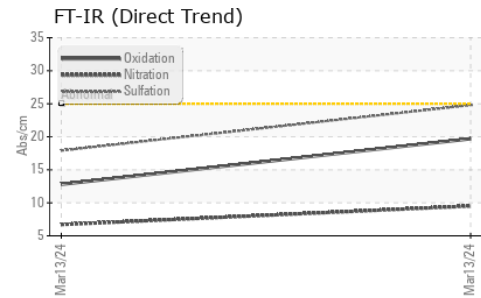
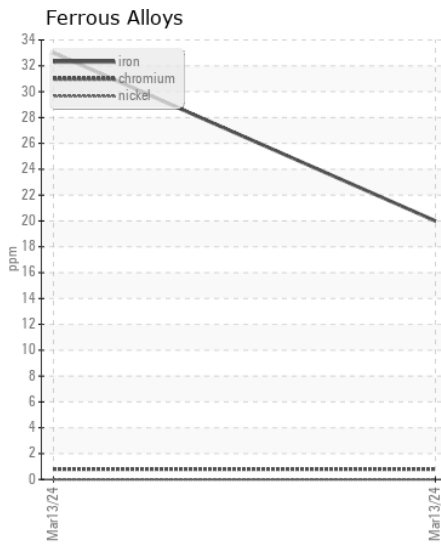
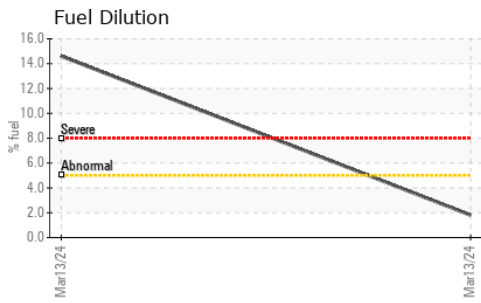
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>25	10	11	---
Potassium	ppm	ASTM D5185m	>20	43	30	---
Fuel	%	ASTM D3524	>5	1.8	▲ 14.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.6	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	9.5	6.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	17.9	---
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 suitable for further service.

Sodium	ppm	ASTM D5185m		3	42	---
Boron	ppm	ASTM D5185m		275	92	---
Barium	ppm	ASTM D5185m		0	3	---
Molybdenum	ppm	ASTM D5185m		118	62	---
Manganese	ppm	ASTM D5185m		1	1	---
Magnesium	ppm	ASTM D5185m		634	331	---
Calcium	ppm	ASTM D5185m		1569	1688	---
Phosphorus	ppm	ASTM D5185m	760	686	814	---
Zinc	ppm	ASTM D5185m	800	822	1087	---
Sulfur	ppm	ASTM D5185m	3000	2719	2959	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	12.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	8.4	9.0	---
Visc @ 100°C	cSt	ASTM D445	14.6	12.8	▲ 7.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0913870 **Received** : 16 Apr 2024
Lab Number : 06151019 **Tested** : 19 Apr 2024
Unique Number : 10981097 **Diagnosed** : 19 Apr 2024 - Wes Davis
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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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)