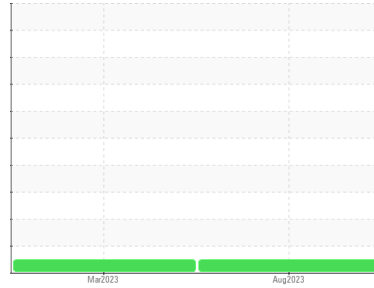




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

3065

Component

Diesel Engine

Fluid

CHEVRON DELO 400 XLE 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0540387	WC0540399	---
Sample Date	Client Info		29 Aug 2023	09 Mar 2023	---
Machine Age	mls	Client Info	323643	284639	---
Oil Age	mls	Client Info	36500	39846	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	20	27	---
Chromium	ppm	ASTM D5185m >20	<1	<1	---
Nickel	ppm	ASTM D5185m >4	0	4	---
Titanium	ppm	ASTM D5185m	<1	<1	---
Silver	ppm	ASTM D5185m >3	0	<1	---
Aluminum	ppm	ASTM D5185m >20	6	15	---
Lead	ppm	ASTM D5185m >40	0	<1	---
Copper	ppm	ASTM D5185m >330	6	12	---
Tin	ppm	ASTM D5185m >15	1	2	---
Vanadium	ppm	ASTM D5185m	<1	<1	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	17	26	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	4	6	---
Manganese	ppm	ASTM D5185m	<1	<1	---
Magnesium	ppm	ASTM D5185m	776	830	---
Calcium	ppm	ASTM D5185m 2900	1566	1504	---
Phosphorus	ppm	ASTM D5185m 1100	777	795	---
Zinc	ppm	ASTM D5185m 1200	912	977	---
Sulfur	ppm	ASTM D5185m 4000	3126	3799	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	8	7	---
Sodium	ppm	ASTM D5185m	3	4	---
Potassium	ppm	ASTM D5185m >20	8	18	---

INFRA-RED

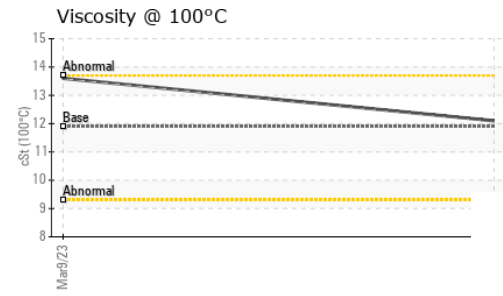
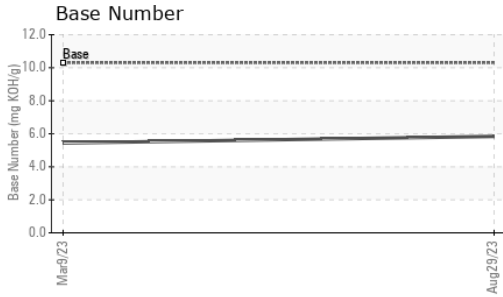
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.6	0.7	---
Nitration	Abs/cm	*ASTM D7624 >20	10.7	12.7	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	25.3	27.6	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	20.8	24.6	---
Base Number (BN)	mg KOH/g	ASTM D2896 10.3	5.84	5.44	---



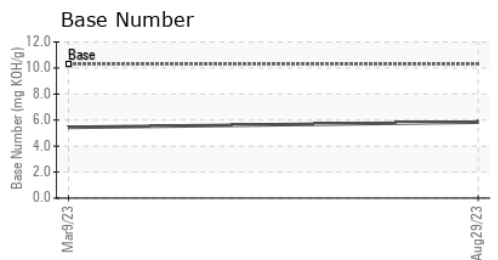
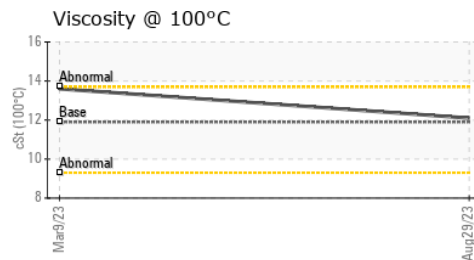
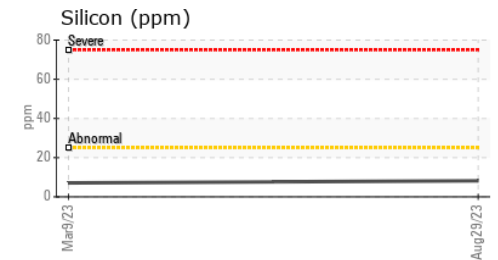
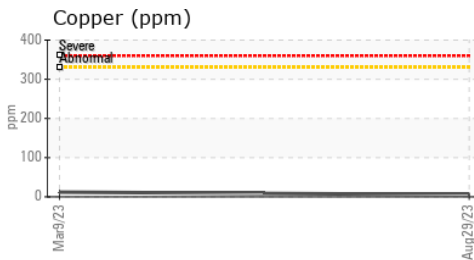
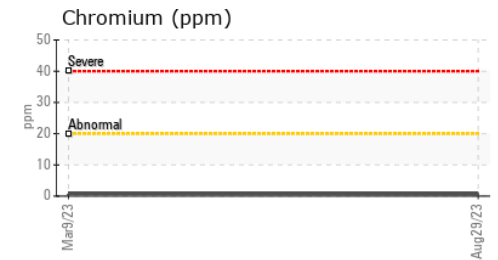
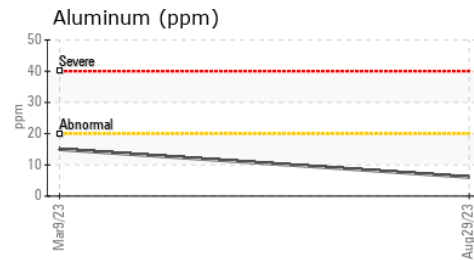
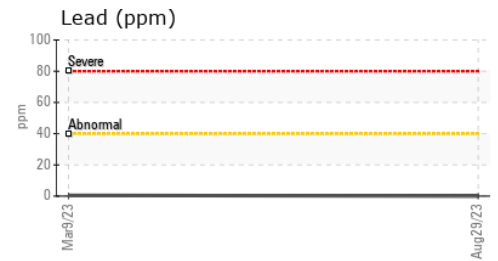
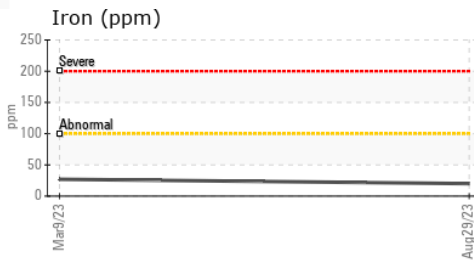
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.9	12.1	13.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0540387 **Received** : 04 Oct 2023
Lab Number : 05969101 **Diagnosed** : 05 Oct 2023
Unique Number : 10675652 **Diagnostician** : Wes Davis
Test Package : MOB 2

LTI/MILKY WAY - VANCOUVER
 2631 SCOTT AVE
 VANCOUVER, WA
 US 98660

Contact: BRANDON MILLER
 brandonm@lynden.com
 T: (206)256-2577
 F: (206)256-4068

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)