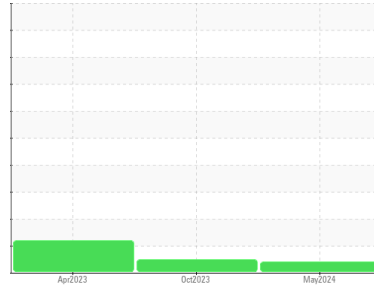




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id

3188

Component

Diesel Engine

Fluid

CHEVRON DELO 400 XLE 15W40 (--- QTS)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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		WC0650496	WC0650511	WC0650524
Sample Date	Client Info		25 May 2024	02 Oct 2023	26 Apr 2023
Machine Age	mls	Client Info	167615	0	78020
Oil Age	mls	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	Changed
Sample Status			ATTENTION	NORMAL	ABNORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	5	34	73
Chromium	ppm	ASTM D5185m >20	0	<1	1
Nickel	ppm	ASTM D5185m >4	0	<1	<1
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m >3	0	0	<1
Aluminum	ppm	ASTM D5185m >20	2	12	32
Lead	ppm	ASTM D5185m >40	0	0	0
Copper	ppm	ASTM D5185m >330	0	7	17
Tin	ppm	ASTM D5185m >15	0	<1	1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	77	11	14
Barium	ppm	ASTM D5185m	0	<1	0
Molybdenum	ppm	ASTM D5185m	7	10	12
Manganese	ppm	ASTM D5185m	<1	<1	2
Magnesium	ppm	ASTM D5185m	787	770	805
Calcium	ppm	ASTM D5185m	1532	1387	1404
Phosphorus	ppm	ASTM D5185m 760	817	761	765
Zinc	ppm	ASTM D5185m 830	956	951	929
Sulfur	ppm	ASTM D5185m 2770	3973	3665	3636

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	5	8	11
Sodium	ppm	ASTM D5185m	<1	<1	4
Potassium	ppm	ASTM D5185m >20	4	25	59
Fuel	%	ASTM D3524 >5	0.5	<1.0	<1.0

INFRA-RED

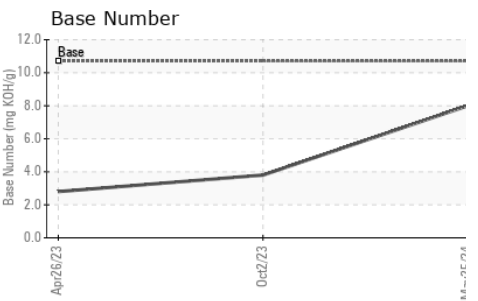
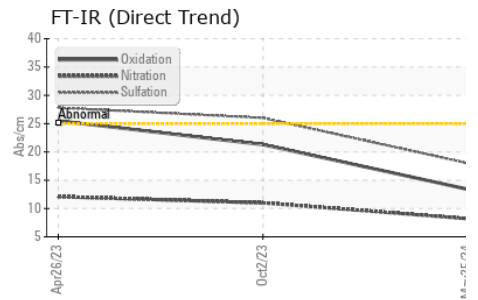
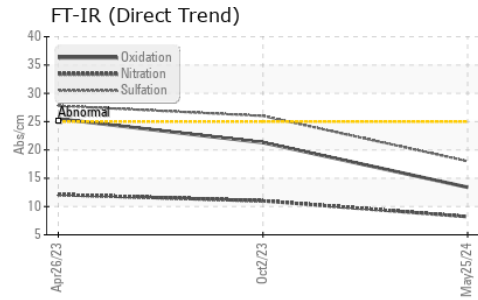
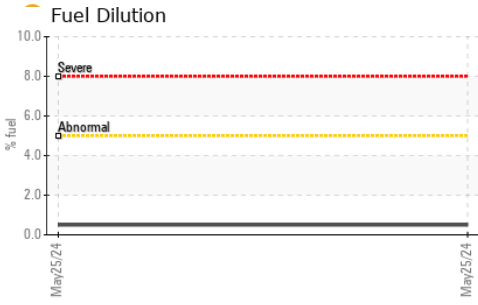
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.2	0.7	0.9
Nitration	Abs/cm	*ASTM D7624 >20	8.2	11.0	12.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	18.0	26.0	27.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	13.4	21.3	25.5
Base Number (BN)	mg KOH/g	ASTM D2896 10.7	8	3.8	▲ 2.8



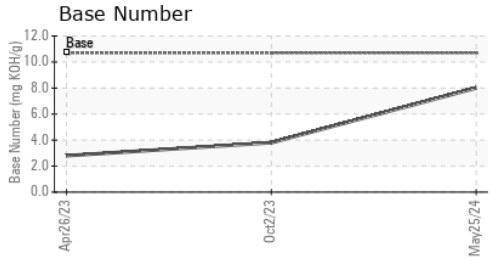
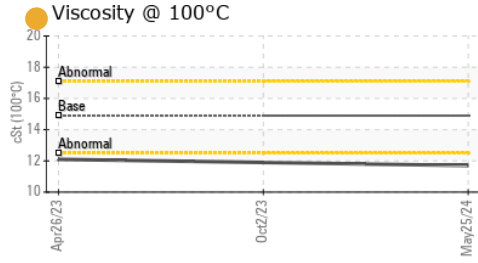
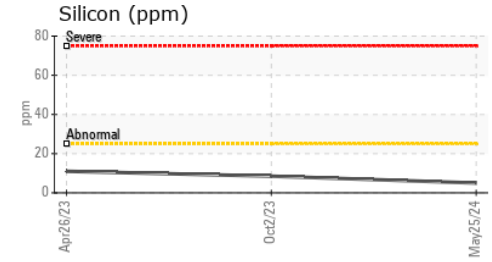
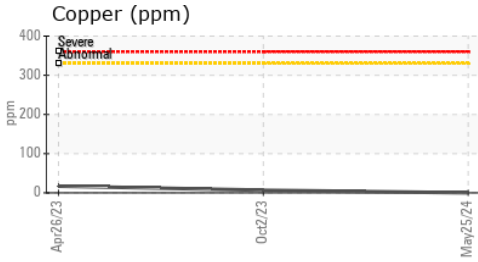
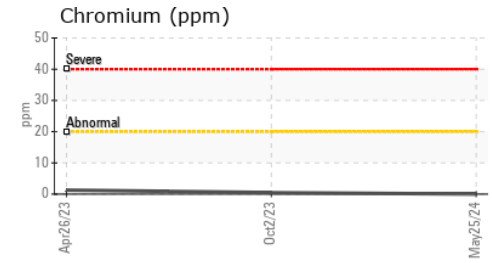
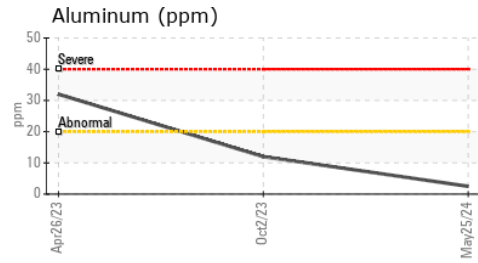
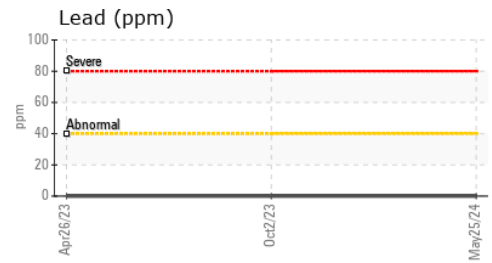
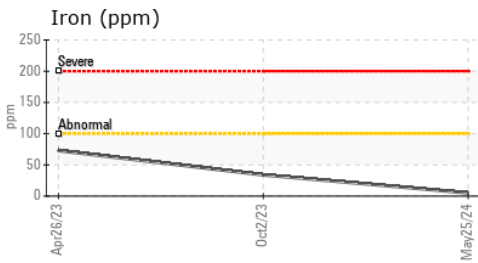
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
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	14.9	● 11.7	11.9	12.1

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0650496 **Received** : 07 Jun 2024
Lab Number : 06202442 **Tested** : 11 Jun 2024
Unique Number : 11069903 **Diagnosed** : 11 Jun 2024 - Sean Felton
Test Package : MOB1+ (Additional Tests: FuelDilution, PercentFuel)

LTI/MILKY WAY - SUNNYSIDE
 333 MIDVALE RD
 SUNNYSIDE, WA
 US 98944
 Contact: Barbara Kluever
 bkluever@lynden.com
 T: (509)839-5844
 F: (509)839-6556

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)