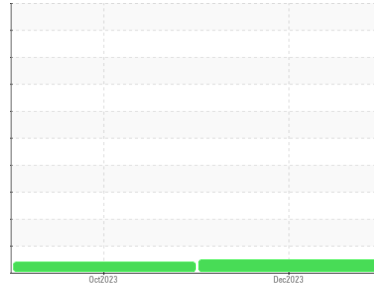




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

1186

Component

Diesel Engine

Fluid

CHEVRON DELO 400 XLE 10W30 (36 LTR)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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. 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		WC0851819	WC0733137	---
Sample Date	Client Info		21 Dec 2023	06 Oct 2023	---
Machine Age	mls	Client Info	77676	38733	---
Oil Age	mls	Client Info	40000	38733	---
Oil Changed		Client Info	Changed	Changed	---
Sample Status			NORMAL	ATTENTION	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	0.2	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	42	57
Chromium	ppm	ASTM D5185m	>20	3	5
Nickel	ppm	ASTM D5185m	>4	<1	0
Titanium	ppm	ASTM D5185m		<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1
Aluminum	ppm	ASTM D5185m	>20	38	66
Lead	ppm	ASTM D5185m	>40	<1	0
Copper	ppm	ASTM D5185m	>330	84	171
Tin	ppm	ASTM D5185m	>15	1	2
Vanadium	ppm	ASTM D5185m		0	0
Cadmium	ppm	ASTM D5185m		0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		57	85
Barium	ppm	ASTM D5185m		1	0
Molybdenum	ppm	ASTM D5185m		16	42
Manganese	ppm	ASTM D5185m		2	4
Magnesium	ppm	ASTM D5185m		696	468
Calcium	ppm	ASTM D5185m	2900	1379	1506
Phosphorus	ppm	ASTM D5185m	1100	787	676
Zinc	ppm	ASTM D5185m	1200	901	799
Sulfur	ppm	ASTM D5185m	4000	2534	1697

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	8
Sodium	ppm	ASTM D5185m		0	4
Potassium	ppm	ASTM D5185m	>20	88	160

INFRA-RED

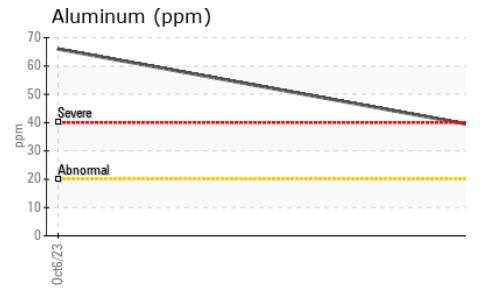
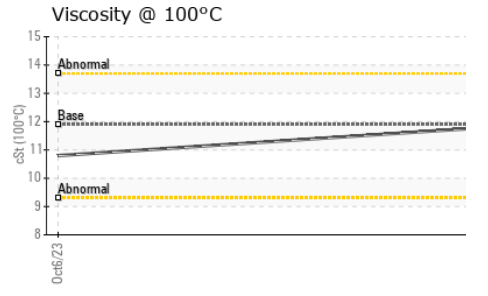
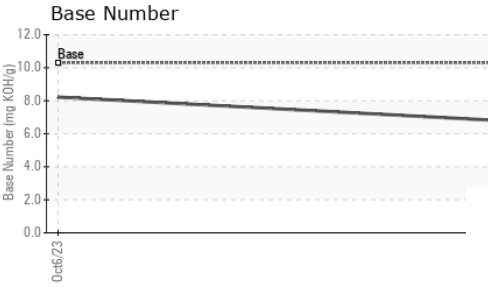
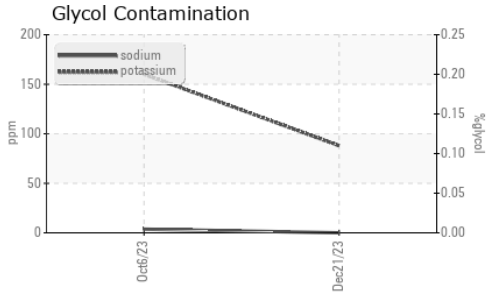
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.5	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	23.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	24.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	6.83	8.22



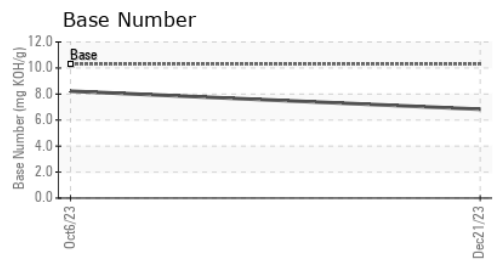
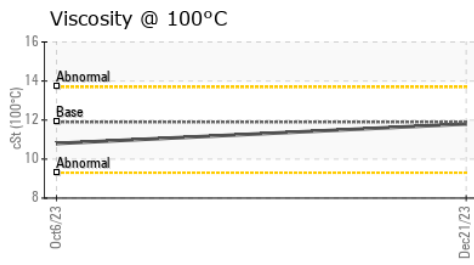
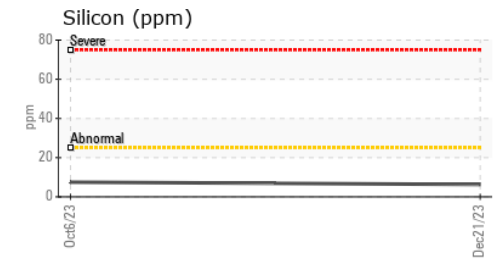
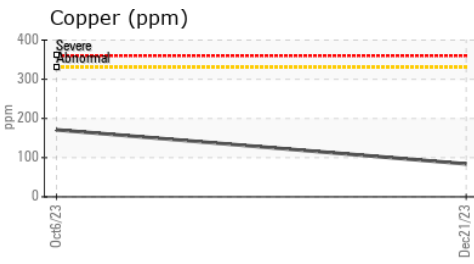
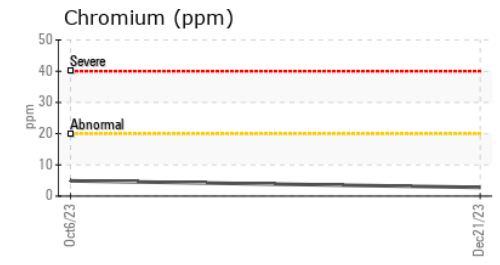
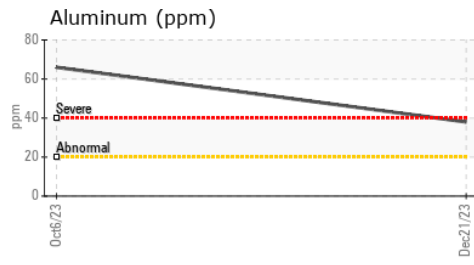
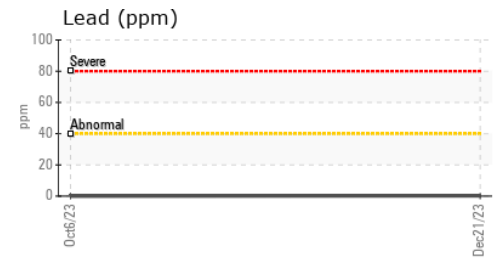
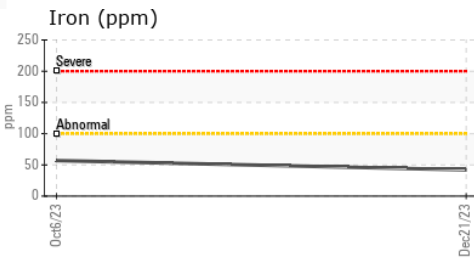
OIL ANALYSIS REPORT



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	11.9	11.8	▲ 10.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0851819 **Received** : 18 Jan 2024
Lab Number : 06065122 **Diagnosed** : 22 Jan 2024
Unique Number : 10836504 **Diagnostician** : Sean Felton
Test Package : MOB 2

LYNDEN TRANSPORT - SPRUCE GROVE
 27340 ACHESON RD, ACHESON INDUSTRIAL PARK
 ACHESON, AB
 CA T7X 6B1
 Contact: Mathieu Carby
 mcarby@lynden.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)