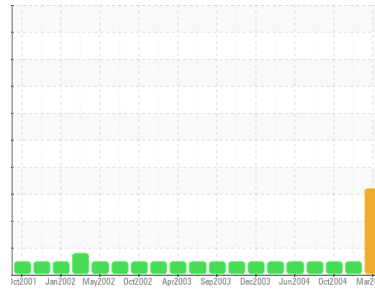




OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id

PETERBILT 123

Component

Diesel Engine

Fluid

CHEVRON DELO 400 XLE 15W40 (38 LTR)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

The aluminum level is abnormal. Bearing and/or gear wear is indicated. All other component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0733172	WCM2056357	WCM2039363
Sample Date	Client Info		18 Mar 2024	28 Feb 2005	27 Oct 2004
Machine Age	mls	Client Info	141211	749802	720056
Oil Age	mls	Client Info	40000	20000	20000
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>65	21	12	32
Chromium	ppm	ASTM D5185m	>10	0	2	1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	71	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	▲ 17	2	2
Lead	ppm	ASTM D5185m	>30	0	1	14
Copper	ppm	ASTM D5185m	>30	3	9	3
Tin	ppm	ASTM D5185m	>4	0	0	0
Antimony	ppm	ASTM D5185m		---	1	3
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		22	100	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		12	82	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		443	8	10
Calcium	ppm	ASTM D5185m		1854	2644	3133
Phosphorus	ppm	ASTM D5185m	760	1001	1108	1091
Zinc	ppm	ASTM D5185m	830	1208	1232	1269
Sulfur	ppm	ASTM D5185m	2770	4070	3698	4138

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	7	8	5
Sodium	ppm	ASTM D5185m		▲ 68	2	2
Potassium	ppm	ASTM D5185m	>20	▲ 47	0	8
Glycol	%	*ASTM D2982		NEG	NEG	NEG

INFRA-RED

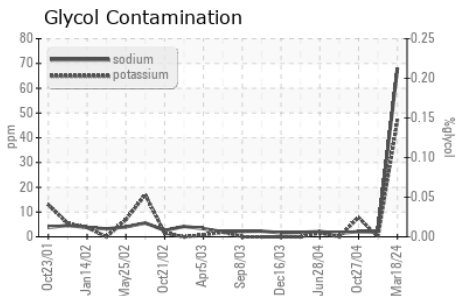
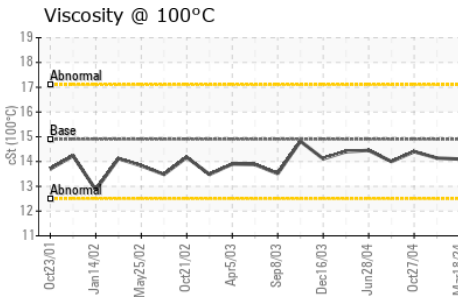
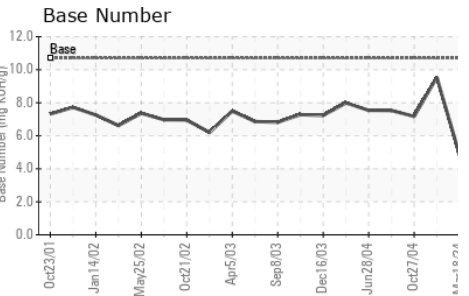
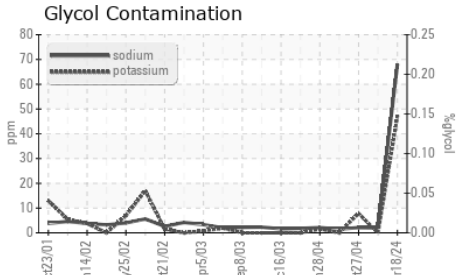
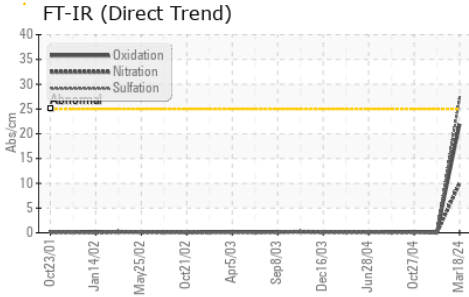
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.4	0.4	0.8
Nitration	Abs/cm	*ASTM D7624	>20	10.1	0.03	0.08
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.3	0.04	0.11

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.9	0.09	0.22
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	4.83	9.54	7.17



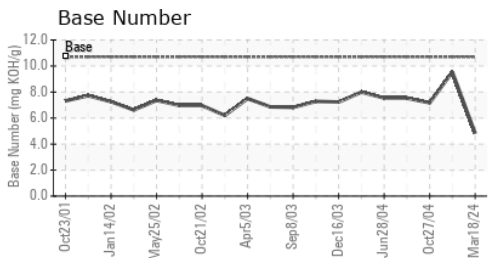
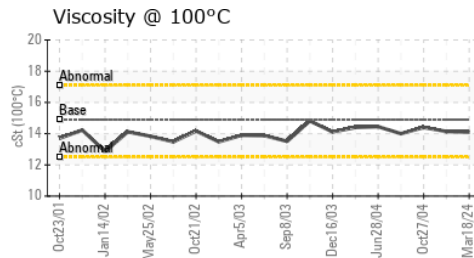
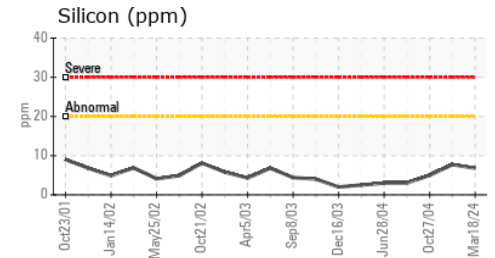
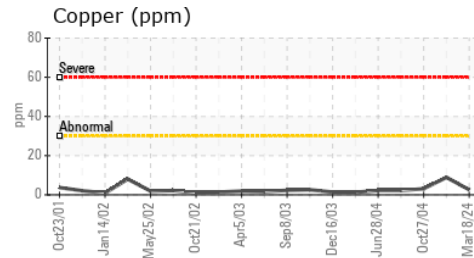
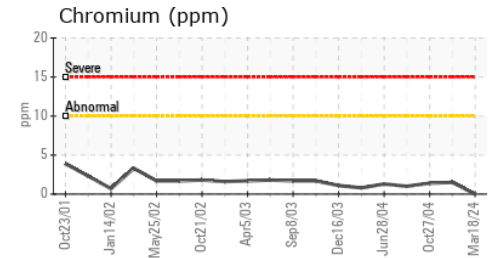
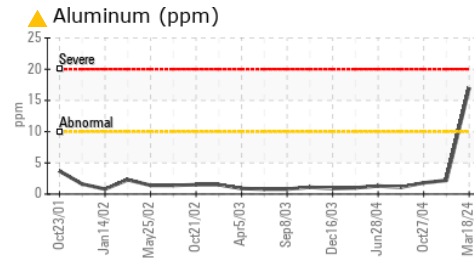
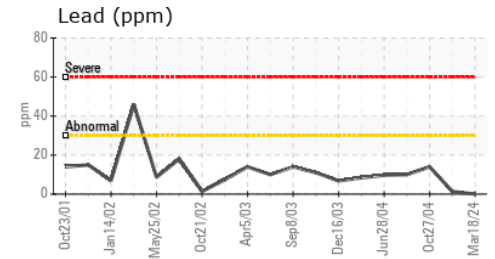
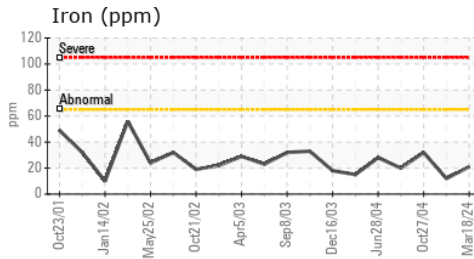
OIL ANALYSIS REPORT



PARAMETER	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	14.1	14.14

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0733172
Lab Number : 06140117
Unique Number : 10964925
Test Package : MOB 2 (Additional Tests: Glycol)

LYNDEN TRANSPORT - SPRUCE GROVE
 27340 ACHESON RD, ACHESON INDUSTRIAL PARK
 ACHESON, AB
 CA T7X 6B1

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)

Contact: Mathieu Carby
 mcarby@lynden.com

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