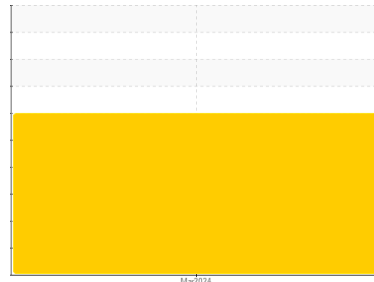




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id

VOLVO VNL740 2206

Component

Diesel Engine

Fluid

CHEVRON DELO 400 XSP 5W30 (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

▲ Wear

Nickel ppm levels are severe. Exhaust valve wear is indicated.

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 oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0899277	---	---
Sample Date	Client Info		24 Mar 2024	---	---
Machine Age	mls	Client Info	204680	---	---
Oil Age	mls	Client Info	44904	---	---
Oil Changed	Client Info		Not Chngd	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<1.0	---	---
Water	WC Method	>0.2	NEG	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	87	---
Chromium	ppm	ASTM D5185(m)	>20	1	---
Nickel	ppm	ASTM D5185(m)	>2	▲ 7	---
Titanium	ppm	ASTM D5185(m)		<1	---
Silver	ppm	ASTM D5185(m)	>2	0	---
Aluminum	ppm	ASTM D5185(m)	>25	5	---
Lead	ppm	ASTM D5185(m)	>40	3	---
Copper	ppm	ASTM D5185(m)	>330	21	---
Tin	ppm	ASTM D5185(m)	>15	1	---
Antimony	ppm	ASTM D5185(m)		0	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		8	---
Barium	ppm	ASTM D5185(m)		<1	---
Molybdenum	ppm	ASTM D5185(m)		18	---
Manganese	ppm	ASTM D5185(m)		1	---
Magnesium	ppm	ASTM D5185(m)		599	---
Calcium	ppm	ASTM D5185(m)		1337	---
Phosphorus	ppm	ASTM D5185(m)	800	612	---
Zinc	ppm	ASTM D5185(m)	800	739	---
Sulfur	ppm	ASTM D5185(m)	3000	2105	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

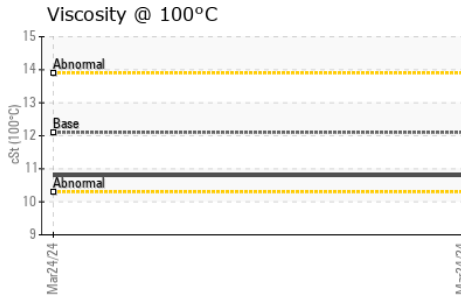
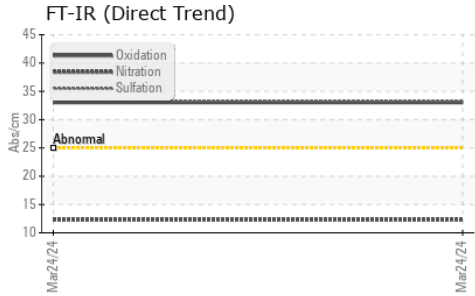
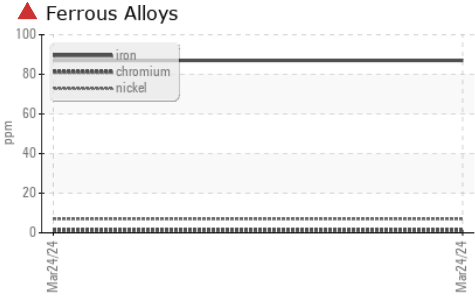
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	11	---
Sodium	ppm	ASTM D5185(m)		3	---
Potassium	ppm	ASTM D5185(m)	>20	8	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	---
Nitration	Abs/cm	ASTM D7624*	>20	12.3	---
Sulfation	Abs./1mm	ASTM D7415*	>30	33.3	---



OIL ANALYSIS REPORT

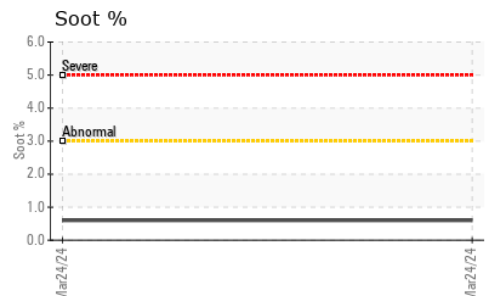
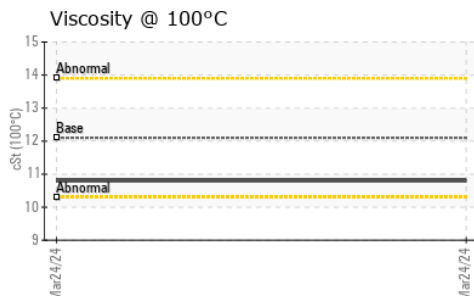
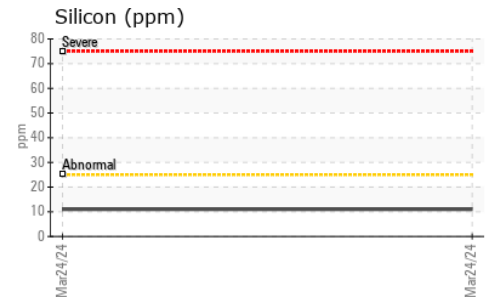
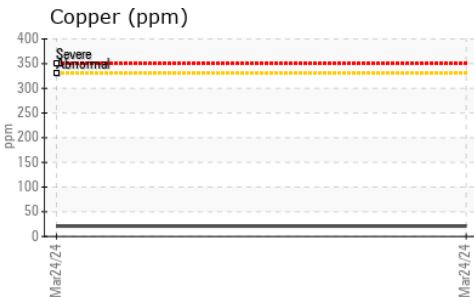
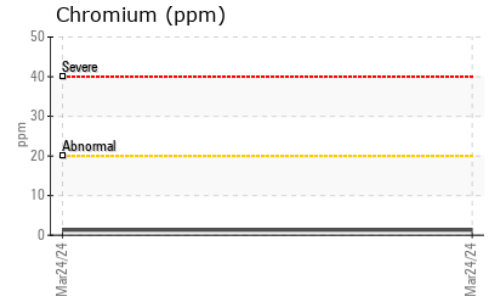
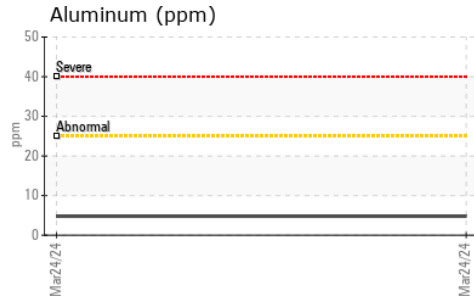
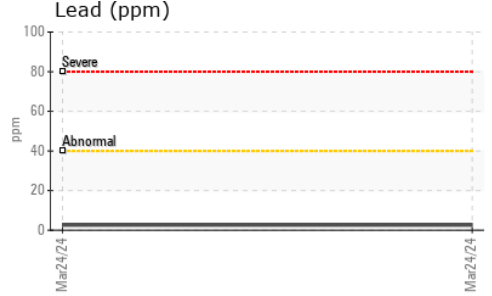
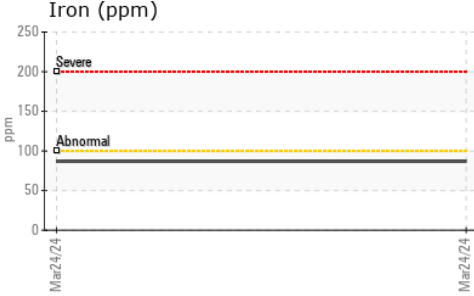


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	33.0	---	---

VISUAL	method	limit/base	current	history1	history2	
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 D7279(m)	12.1	10.8	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0899277
Lab Number : **02627584**
Unique Number : 5760716
Test Package : MOB 1
Received : 09 Apr 2024
Tested : 09 Apr 2024
Diagnosed : 09 Apr 2024 - Kevin Marson

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 MITCHELL, ON
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 hjkobus65@gmail.com
 T: (519)272-9032
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.