



**POWER SYSTEMS**  
**SYSTÈMES DE PUISSANCE**

**OIL ANALYSIS REPORT**

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>ABNORMAL</b>



Machine Id  
**VOLVO L120B 271**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

**RECOMMENDATION**

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WA0021097</b>	WA0012026	---
Sample Date		Client Info		<b>24 Apr 2024</b>	26 Jul 2018	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	---
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	<b>14</b>	16	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>30	<b>2</b>	2	---
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	4	---
Copper	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	---
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

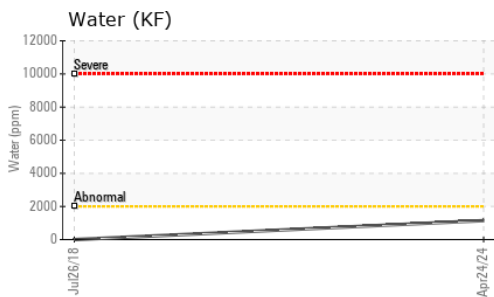
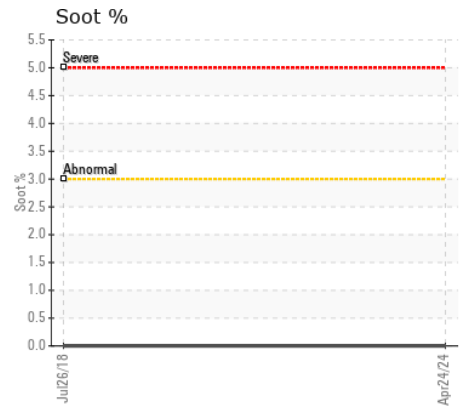
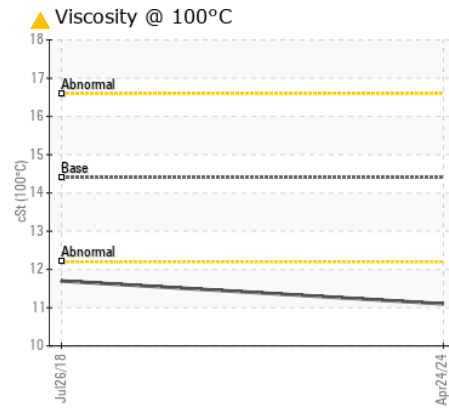
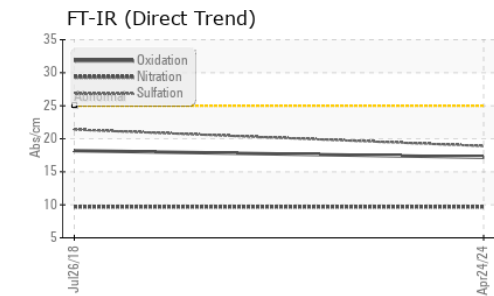
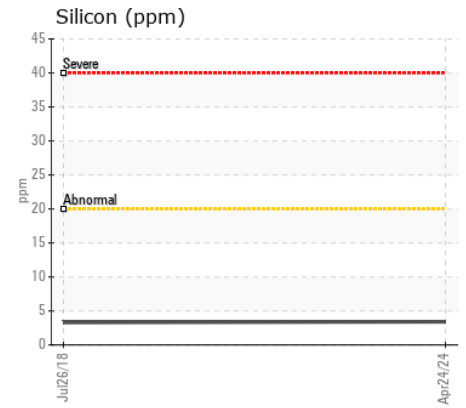
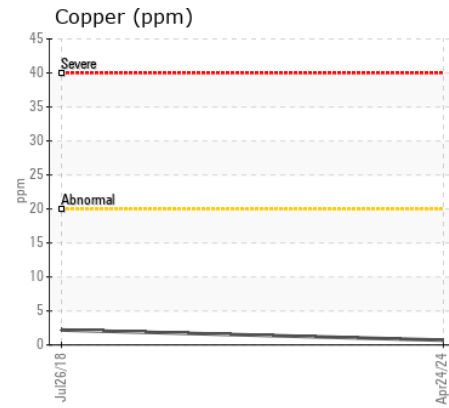
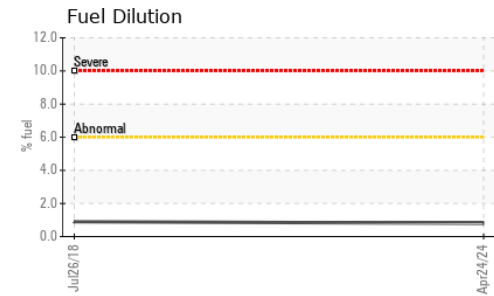
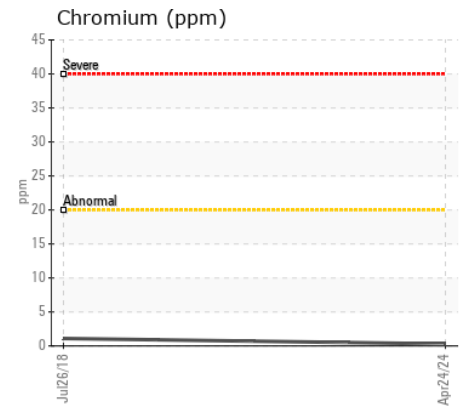
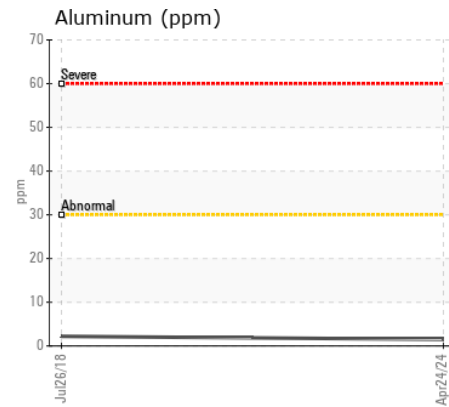
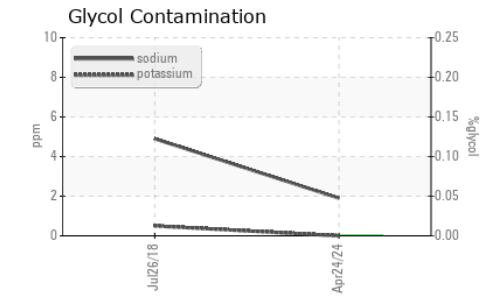
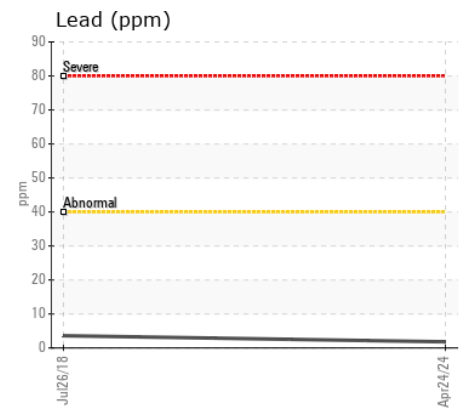
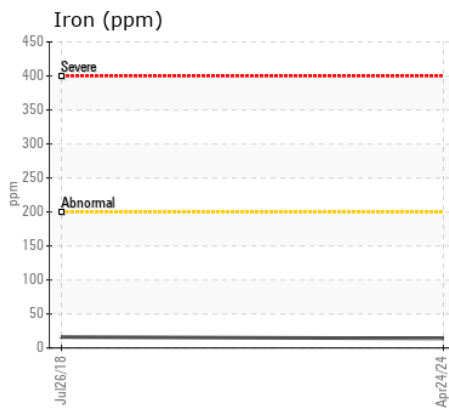
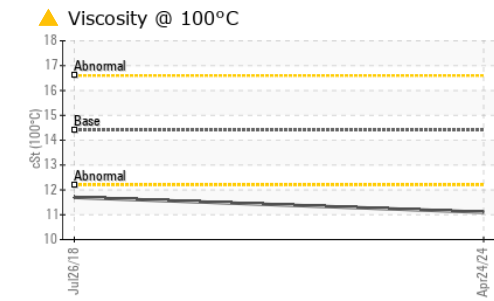
Fuel content negligible. The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	3	---
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	---
Fuel	%	ASTM D7593*	>6.0	<b>0.8</b>	0.9	---
Water	%	ASTM D6304*	>0.2	<b>0.114</b>	---	---
ppm Water	ppm	ASTM D6304*	>2000	<b>1145</b>	---	---
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.7</b>	9.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.9</b>	21.4	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>.2%</b>	NEG	---

**FLUID CONDITION**

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>158	<b>2</b>	5	---
Boron	ppm	ASTM D5185(m)	250	<b>6</b>	8	---
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>63</b>	58	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	450	<b>978</b>	890	---
Calcium	ppm	ASTM D5185(m)	3000	<b>1145</b>	1344	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1021</b>	1087	---
Zinc	ppm	ASTM D5185(m)	1350	<b>1209</b>	1321	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>2570</b>	2776	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.2</b>	18.2	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>▲ 11.1</b>	11.7	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0021097  
**Lab Number** : 02631831  
**Unique Number** : 5772984  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, Glycol, KF, PercentFuel, Visual )

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*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.*