



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Area
ABL TIMBER LTD
Machine Id
VOLVO EC220D NOUNITVCP212691
Component
Diesel Engine
Fluid
KLONDIKE HEAVY DUTY 15W40 (--- GAL)

RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. No other corrective action is recommended at this time.

WEAR

All component wear rates are normal.

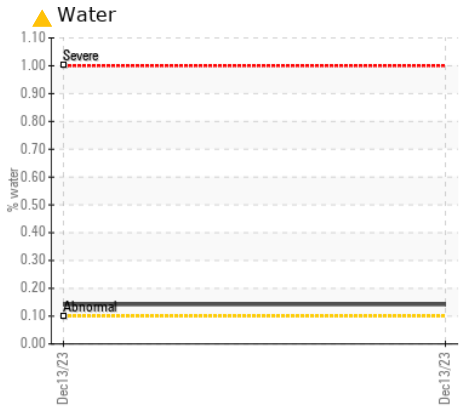
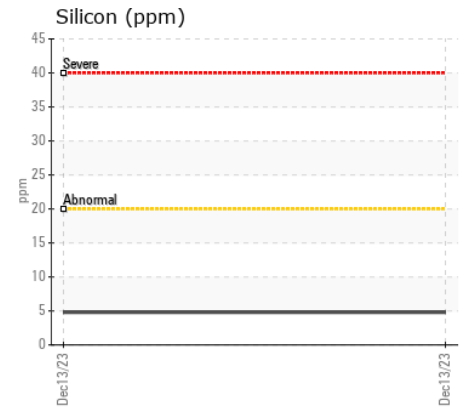
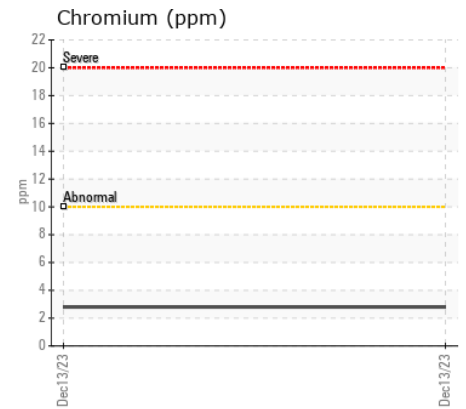
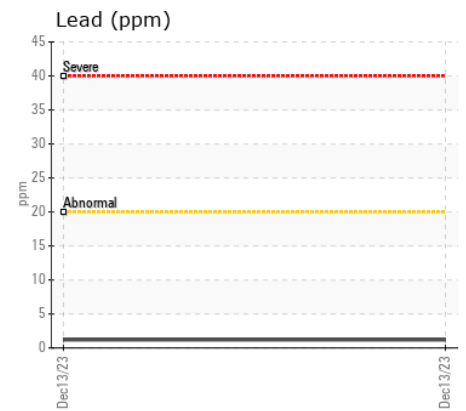
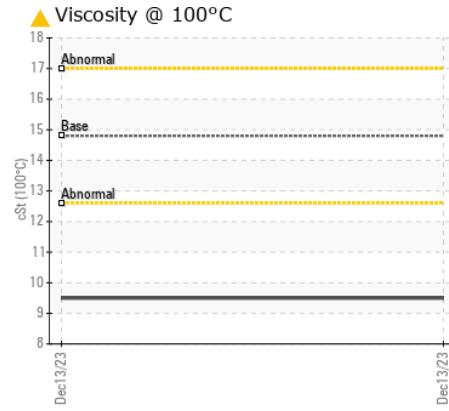
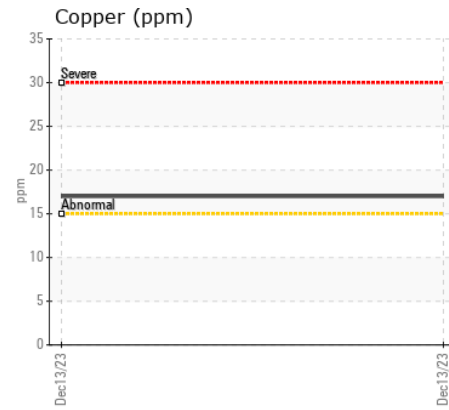
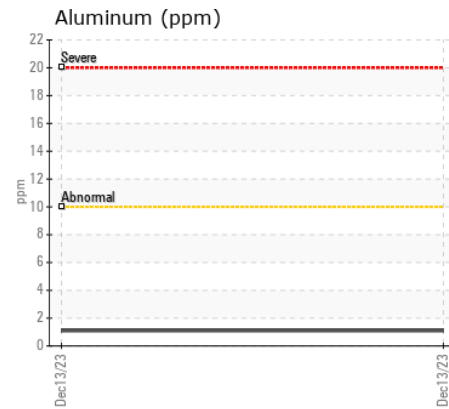
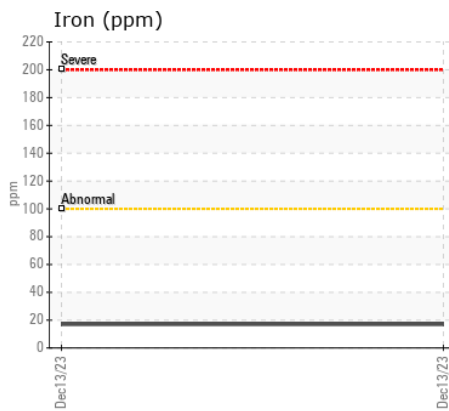
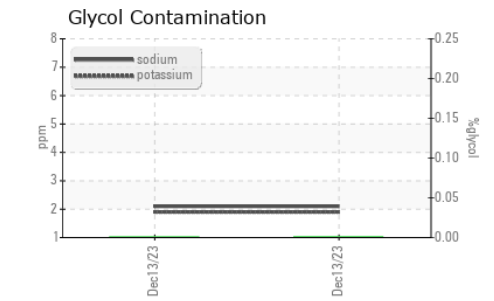
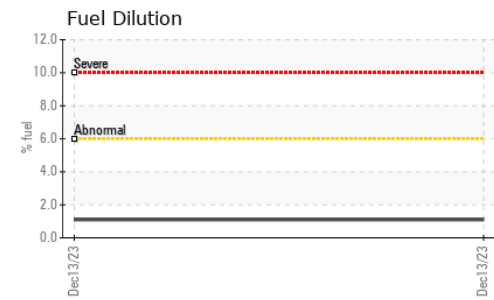
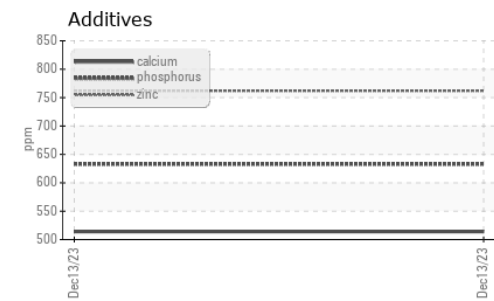
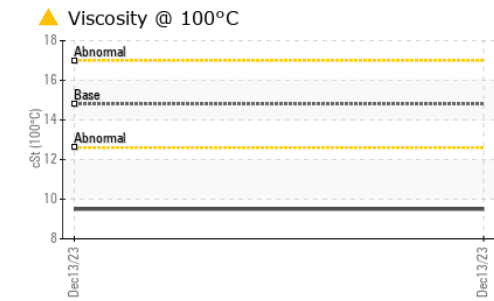
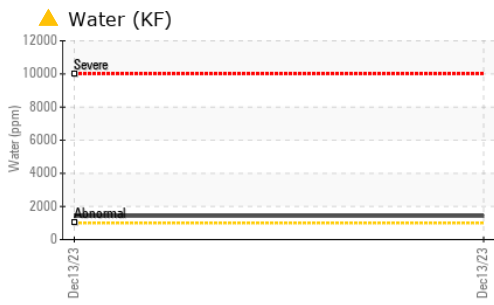
CONTAMINATION

Light fuel dilution occurring. There is a trace of moisture present in the oil. Test for glycol is negative. No other contaminants were detected in the oil.

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP212691	---	---
Sample Date		Client Info		13 Dec 2023	---	---
Machine Age	hrs	Client Info		12000	---	---
Oil Age	hrs	Client Info		200	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185(m)	>100	17	---	---
Chromium	ppm	ASTM D5185(m)	>10	3	---	---
Nickel	ppm	ASTM D5185(m)	>10	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>2	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>10	1	---	---
Lead	ppm	ASTM D5185(m)	>20	1	---	---
Copper	ppm	ASTM D5185(m)	>15	17	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Silicon	ppm	ASTM D5185(m)	>20	5	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Fuel	%	ASTM D7593*	>6.0	1.1	---	---
Water	%	ASTM D6304*	>0.1	▲ 0.142	---	---
ppm Water	ppm	ASTM D6304*	>1000	▲ 1422	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*	>3	0.2	---	---
Nitration	Abs/cm	ASTM D7624*	>20	5.0	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.0	---	---
Emulsified Water	scalar	Visual*	>0.1	.5%	---	---
Sodium	ppm	ASTM D5185(m)		2	---	---
Boron	ppm	ASTM D5185(m)	70	4	---	---
Barium	ppm	ASTM D5185(m)		<1	---	---
Molybdenum	ppm	ASTM D5185(m)		● 30	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)	50	465	---	---
Calcium	ppm	ASTM D5185(m)	2000	● 514	---	---
Phosphorus	ppm	ASTM D5185(m)	1000	● 633	---	---
Zinc	ppm	ASTM D5185(m)	1100	● 762	---	---
Sulfur	ppm	ASTM D5185(m)	3400	● 2015	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.0	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	▲ 9.5	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP212691
Lab Number : 02604066
Unique Number : 5697151
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KF, PercentFuel)

Received : 19 Dec 2023
Tested : 20 Dec 2023
Diagnosed : 21 Dec 2023 - Kevin Marson

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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.