



CONSTRUCTION EQUIPMENT

ABL TIMBER LTD VOLVO EC220D NOUNITVCP212691 - DIESEL ENGINE



Sample No: VCP212691
Oil Type: KLONDIKE HEAVY DUTY 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP212691	---	---	---
Sample Date	13 Dec 2023	---	---	---
Machine Hours	12000	---	---	---
Oil Hours	200	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 9.5	---	---	---
Oxidation (PA)	%	40	---	---	---

CONTAMINATION

Water	%	▲ 0.142	---	---	---
Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	42	---	---	---
Sulfation (PA)	%	47	---	---	---
Glycol	%	■ 0.0	---	---	---
Fuel	%	■ 1.1	---	---	---
Silicon	ppm	■ 5	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 2	---	---	---

Diagnosis

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. All component wear rates are normal. 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. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

WEAR METALS

Iron	ppm	■ 17	---	---	---
Copper	ppm	■ 17	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ 3	---	---	---
Molybdenum	ppm	▲ 30	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	▲ 514	---	---	---
Magnesium	ppm	■ 465	---	---	---
Zinc	ppm	▲ 762	---	---	---
Phosphorus	ppm	▲ 633	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 4	---	---	---

Depot: SHEDAR
Unique No: 5697151
Signed: Kevin Marson
Report Date: 21 Dec 2023



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GRAPHS

