



CONSTRUCTION EQUIPMENT

10271 NICHOLS EXC VOLVO A25G 742255 - DIESEL ENGINE



Sample No: VCP441044
Oil Type: CHEVRON 15W40
Job No: 10271 NICHOLS EXC



SAMPLE INFORMATION

Sample Number	VCP441044	VCP380563	---	---
Sample Date	29 Jan 2024	30 Nov 2022	---	---
Machine Hours	4387	4006	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.9	12.2	---	---
Base Number (BN)	mg KOH/g	■ 6.2	■ 8.3	---	---
Oxidation (PA)	%	■ 44	50	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.2	■ 0.2	---	---
Nitration (PA)	%	■ 56	59	---	---
Sulfation (PA)	%	■ 49	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 2.9	■ 2.5	---	---
Silicon	ppm	■ 4	■ 3	---	---
Sodium	ppm	■ 0	■ 1	---	---
Potassium	ppm	■ <1	■ 2	---	---

WEAR METALS

Iron	ppm	■ 0	■ 3	---	---
Copper	ppm	■ <1	■ <1	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ 0	■ <1	---	---
Aluminum	ppm	■ 2	■ <1	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 72	■ 29	---	---
Nickel	ppm	■ 0	■ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ <1	<1	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	■ 1490	■ 1951	---	---
Magnesium	ppm	■ 371	■ 133	---	---
Zinc	ppm	■ 1075	■ 1147	---	---
Phosphorus	ppm	■ 939	■ 921	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 314	■ 161	---	---

Depot: VOLV00150
Unique No: 10862442
Signed: Sean Felton
Report Date: 07 Feb 2024



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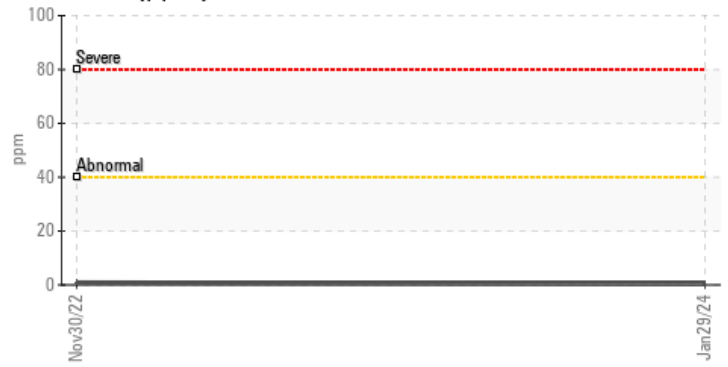


GRAPHS

Iron (ppm)



Lead (ppm)



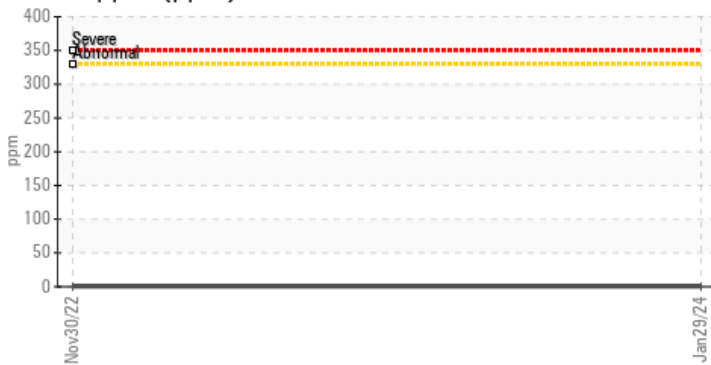
Aluminum (ppm)



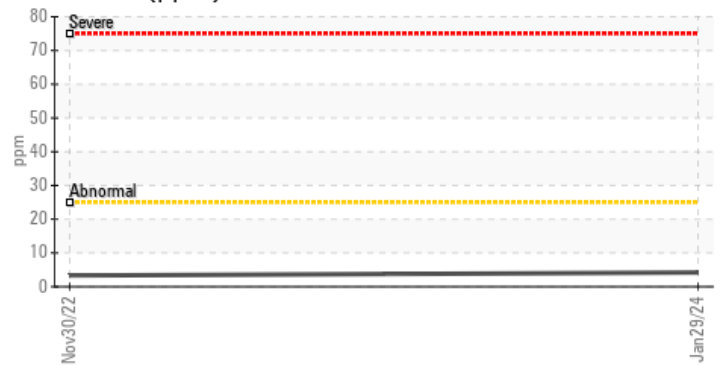
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

