



# CONSTRUCTION EQUIPMENT

X18301 APAC VOLVO L180H 5434 - DIESEL ENGINE



**Sample No:** VCP431000  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X18301 APAC



## SAMPLE INFORMATION

Sample Number	VCP431000	VCP419267	---	---
Sample Date	15 Feb 2024	25 Sep 2023	---	---
Machine Hours	4971	4473	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	NORMAL	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	▲ 11.9	■ 12.4	---	---
Base Number (BN)	mg KOH/g	■ 10.3	■ 10.3	---	---
Oxidation (PA)	%	80	82	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.1	■ 0.2	---	---
Nitration (PA)	%	56	57	---	---
Sulfation (PA)	%	60	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 1.1	---	---
Silicon	ppm	■ 4	■ 4	---	---
Sodium	ppm	■ 1	■ 2	---	---
Potassium	ppm	■ 2	■ 2	---	---



## WEAR METALS

Iron	ppm	■ 4	■ 4	---	---
Copper	ppm	■ 2	■ <1	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ 2	■ <1	---	---
Chromium	ppm	■ <1	■ 0	---	---
Molybdenum	ppm	■ 36	■ 41	---	---
Nickel	ppm	■ <1	■ 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 0	■ 0	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	■ 1484	■ 1775	---	---
Magnesium	ppm	■ 458	■ 533	---	---
Zinc	ppm	■ 997	■ 1197	---	---
Phosphorus	ppm	■ 901	■ 956	---	---
Barium	ppm	■ 10	■ 0	---	---
Boron	ppm	■ 46	■ 42	---	---

**Depot:** VOLVO8771  
**Unique No:** 10885597  
**Signed:** Don Baldrige  
**Report Date:** 20 Feb 2024

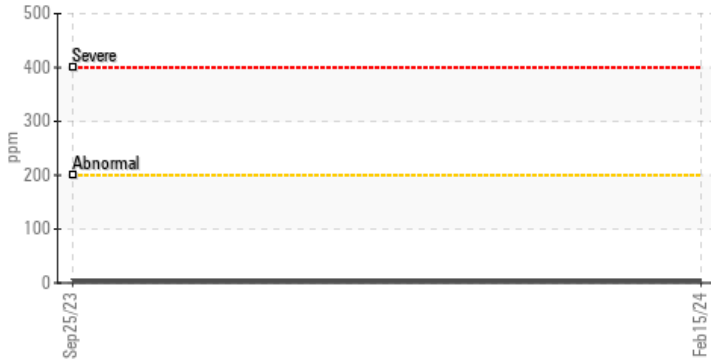


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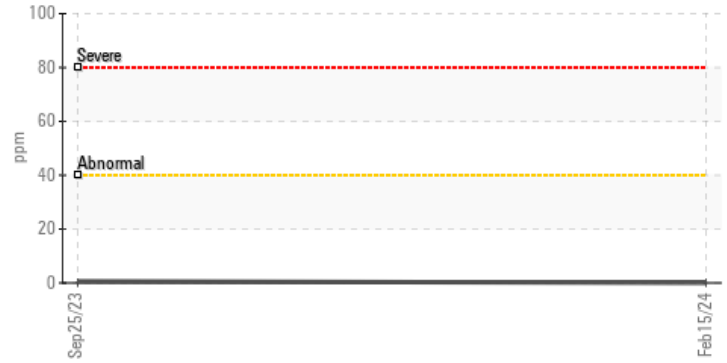


## GRAPHS

### Iron (ppm)



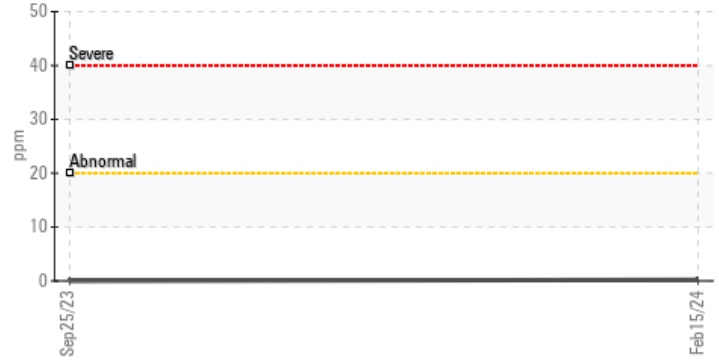
### Lead (ppm)



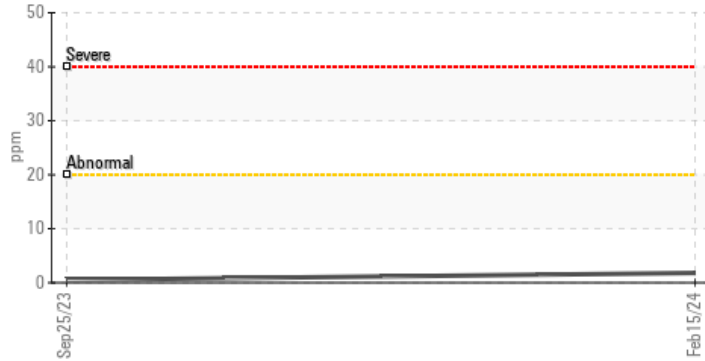
### Aluminum (ppm)



### Chromium (ppm)



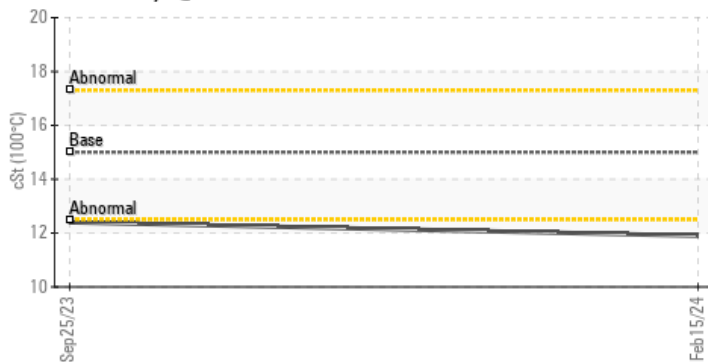
### Copper (ppm)



### Silicon (ppm)



### ▲ Viscosity @ 100°C



### Base Number

