



CONSTRUCTION EQUIPMENT

VOLVO L60H 621313 - DIESEL ENGINE



Sample No: VCP438434
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP438434	---	---	---
Sample Date	23 Feb 2024	---	---	---
Machine Hours	10386	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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 FORT MYERS, FL
 US 33905
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 6.8	---	---	---
Oxidation (PA)	%	90	---	---	---

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. The aluminum level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 1.1	---	---	---
Nitration (PA)	%	105	---	---	---
Sulfation (PA)	%	67	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 9	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 3	---	---	---



WEAR METALS

Iron	ppm	█ 37	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	▲ 30	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 48	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1502	---	---	---
Magnesium	ppm	█ 488	---	---	---
Zinc	ppm	█ 1104	---	---	---
Phosphorus	ppm	█ 872	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	█ 10	---	---	---

Depot: VOLVO0090
Unique No: 10899675
Signed: Don Baldrige
Report Date: 28 Feb 2024

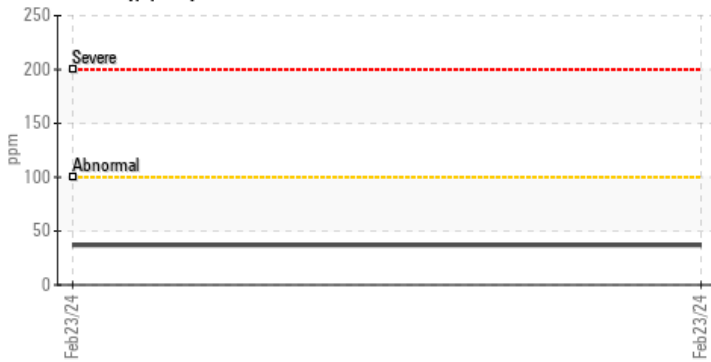


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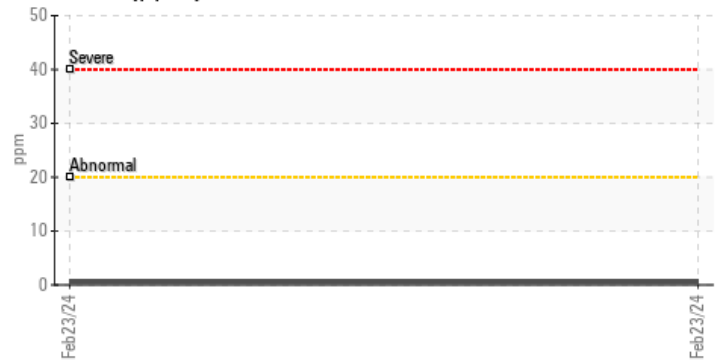


GRAPHS

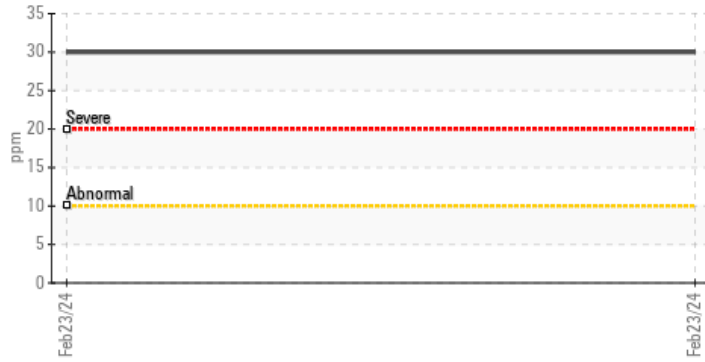
Iron (ppm)



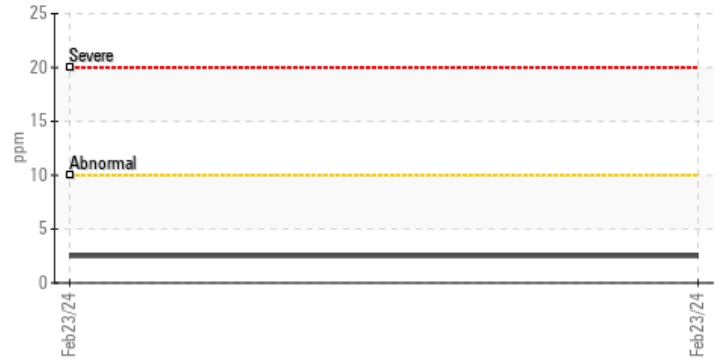
Lead (ppm)



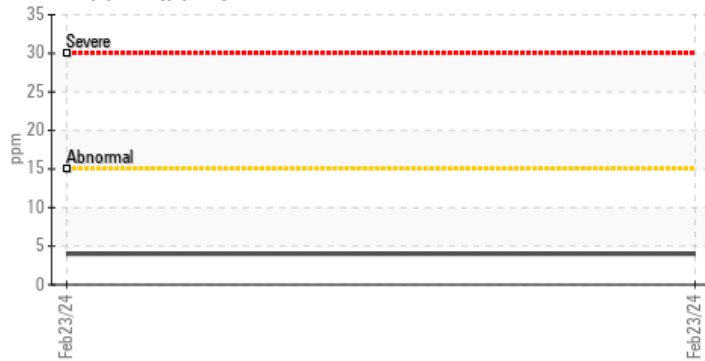
Aluminum (ppm)



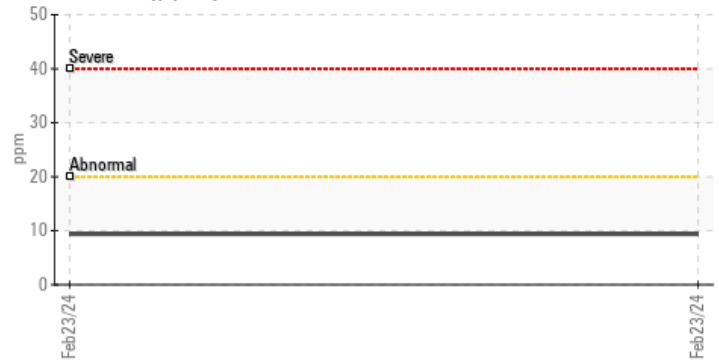
Chromium (ppm)



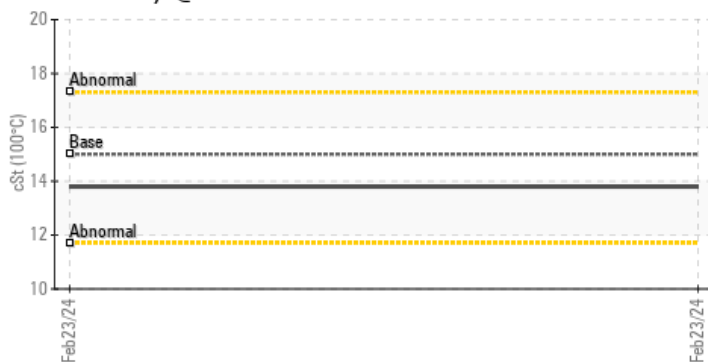
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

