



CONSTRUCTION EQUIPMENT

25455 VOLVO A45 352887 - DIESEL ENGINE



Sample No: VCP447677
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25455



SAMPLE INFORMATION

Sample Number	VCP447677	---	---	---
Sample Date	02 May 2024	---	---	---
Machine Hours	3781	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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 7235 CROSS COUNTRY RD.
 NORTH CHARLESTON, SC
 US 29418
 Contact: MATT MITCHAM
 matt.mitcam@ascendummachinery.com
 T:
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	---	---	---
Base Number (BN)	mg KOH/g	█ 8.0	---	---	---
Oxidation (PA)	%	69	---	---	---

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. Exhaust valve wear is indicated. 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 %	%	█ 0.5	---	---	---
Nitration (PA)	%	70	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ <1	---	---	---



WEAR METALS

Iron	ppm	█ 15	---	---	---
Copper	ppm	█ 67	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 47	---	---	---
Nickel	ppm	▲ 5	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1797	---	---	---
Magnesium	ppm	█ 479	---	---	---
Zinc	ppm	█ 1219	---	---	---
Phosphorus	ppm	█ 1067	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 36	---	---	---

Depot: VOLVO3387
Unique No: 11018398
Signed: Sean Felton
Report Date: 10 May 2024



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GRAPHS

Iron (ppm)



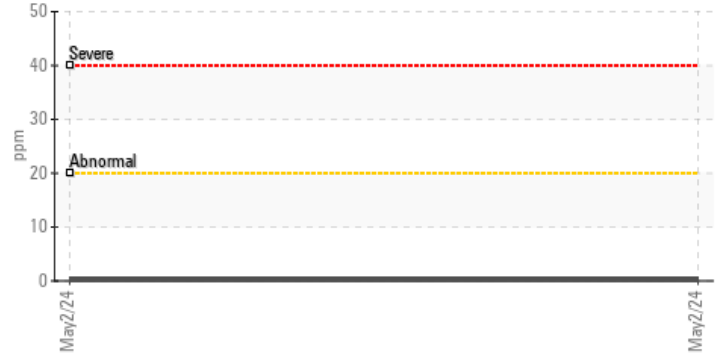
Lead (ppm)



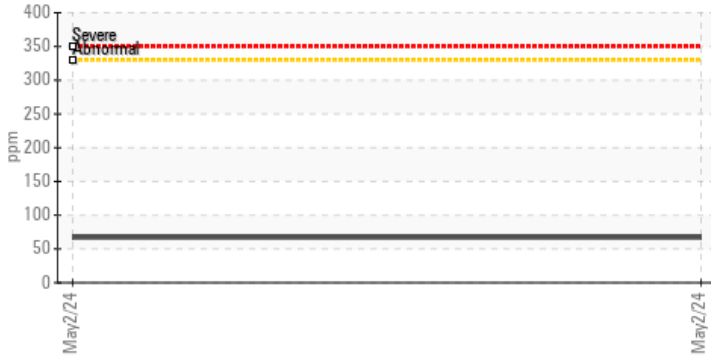
Aluminum (ppm)



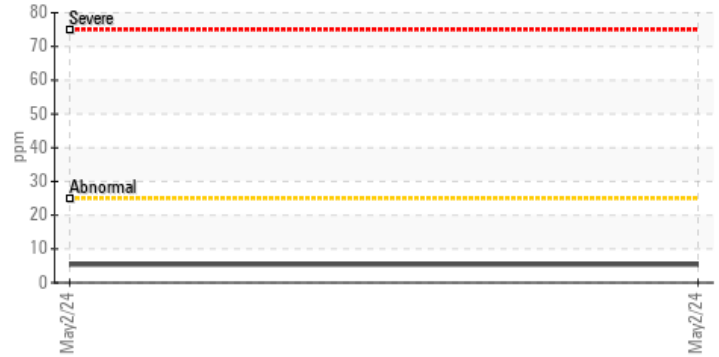
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

