



CONSTRUCTION EQUIPMENT

24892 VOLVO A45G 353402 - DIESEL ENGINE



Sample No: VCP440947
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 24892



SAMPLE INFORMATION

Sample Number	VCP440947	VCP424620	---	---
Sample Date	14 Feb 2024	06 Oct 2023	---	---
Machine Hours	2842	2406	---	---
Oil Hours	0	1000	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

218 - ASCENDUM MACHINERY INC - N. CHARLESTON
 7235 CROSS COUNTRY RD.
 NORTH CHARLESTON, SC
 US 29418
 Contact: MATT MITCHAM
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 T:
 F: (843)414-1129



OIL CONDITION

Visc @ 100°C	cSt	█ 12.4	█ 12.5	---	---
Base Number (BN)	mg KOH/g	█ 8.7	█ 7.5	---	---
Oxidation (PA)	%	76	61	---	---

Diagnosis

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 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	NEG	---	---
Soot %	%	█ 0.4	█ 0.3	---	---
Nitration (PA)	%	64	63	---	---
Sulfation (PA)	%	60	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 8	█ 6	---	---
Sodium	ppm	█ 3	█ 2	---	---
Potassium	ppm	█ 1	█ 2	---	---



WEAR METALS

Iron	ppm	█ 11	█ 6	---	---
Copper	ppm	█ 3	█ 5	---	---
Lead	ppm	█ 1	█ <1	---	---
Tin	ppm	█ 1	█ 1	---	---
Aluminum	ppm	█ 3	█ 3	---	---
Chromium	ppm	█ 1	█ <1	---	---
Molybdenum	ppm	█ 50	█ 83	---	---
Nickel	ppm	█ 3	█ 1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1424	█ 1278	---	---
Magnesium	ppm	█ 445	█ 396	---	---
Zinc	ppm	█ 1037	█ 1151	---	---
Phosphorus	ppm	█ 829	█ 945	---	---
Barium	ppm	34	█ 0	---	---
Boron	ppm	█ 67	█ 263	---	---

Depot: VOLVO3387
Unique No: 10898159
Signed: Wes Davis
Report Date: 27 Feb 2024

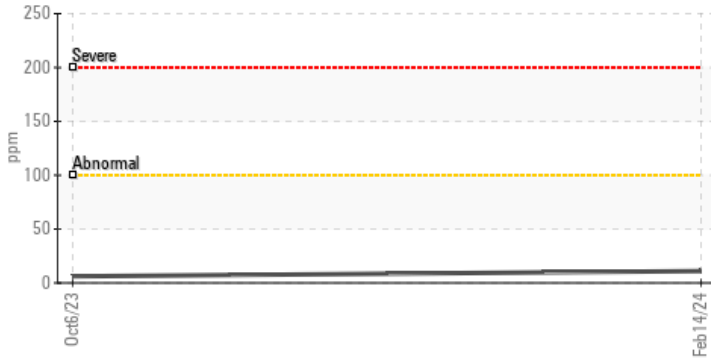


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GRAPHS

Iron (ppm)



Lead (ppm)



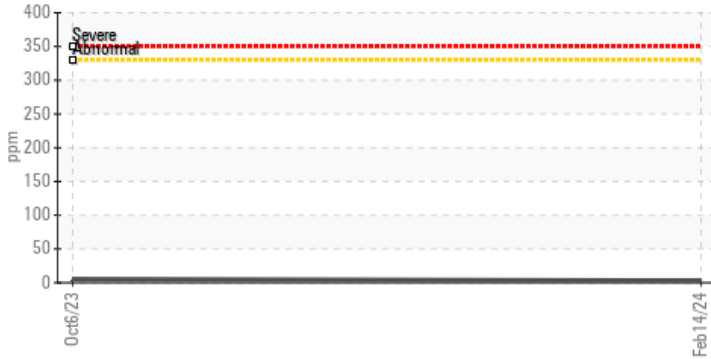
Aluminum (ppm)



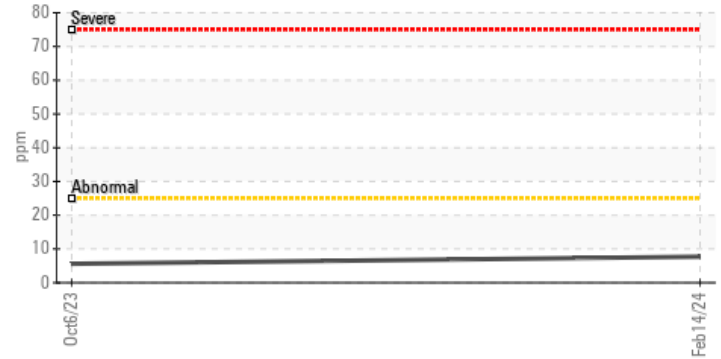
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

