



CONSTRUCTION EQUIPMENT

SVC052928 APM SDLG L948F 640054 - DIESEL ENGINE



Sample No: VCP437228
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SVC052928 APM



SAMPLE INFORMATION

Sample Number	VCP437228	---	---	---
Sample Date	20 Feb 2024	---	---	---
Machine Hours	1757	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

TYLER EQUIPMENT CORPORATION

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	---	---	---
Base Number (BN)	mg KOH/g	█ 8.5	---	---	---
Oxidation (PA)	%	45	---	---	---

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The aluminum level is severe. Piston wear is indicated. High wear metal levels reflect the reported failure. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.9	---	---	---
Nitration (PA)	%	57	---	---	---
Sulfation (PA)	%	49	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 14	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 3	---	---	---



WEAR METALS

Iron	ppm	█ 33	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	● 47	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 30	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1499	---	---	---
Magnesium	ppm	█ 244	---	---	---
Zinc	ppm	█ 833	---	---	---
Phosphorus	ppm	█ 752	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 24	---	---	---

Depot: VOLVO0005
Unique No: 10889477
Signed: Jonathan Hester
Report Date: 26 Feb 2024

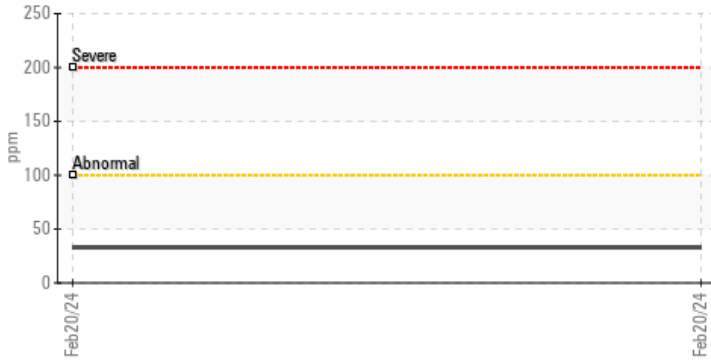


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GRAPHS

Iron (ppm)



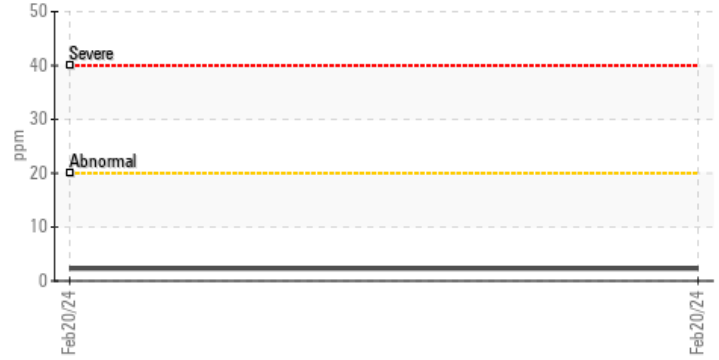
Lead (ppm)



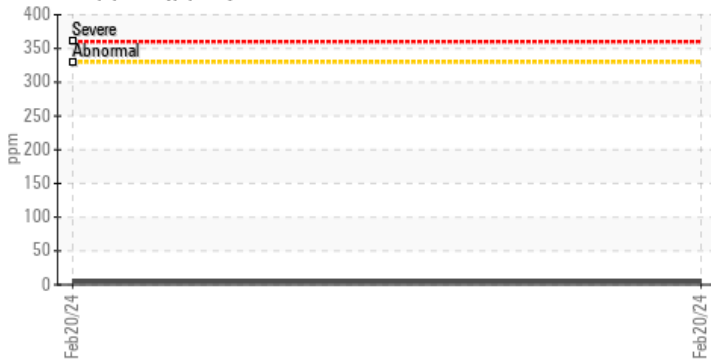
Aluminum (ppm)



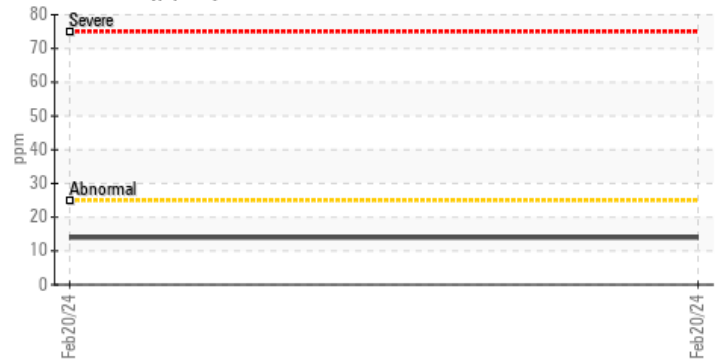
Chromium (ppm)



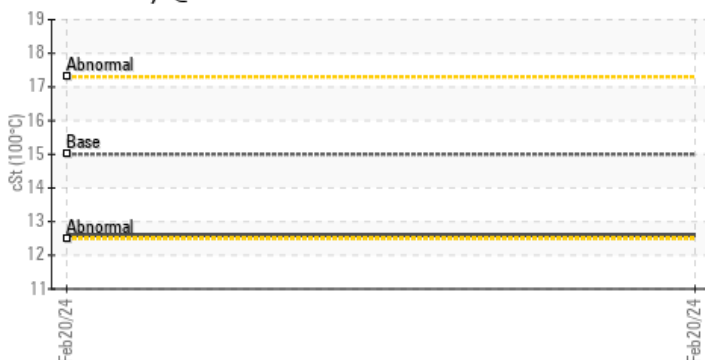
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

