



CONSTRUCTION EQUIPMENT

11510 VOLVO A40F 11510 - DIESEL ENGINE



Sample No: VCP341025
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 11510



SAMPLE INFORMATION

Sample Number	VCP341025	VCP147773	---	---
Sample Date	01 Feb 2022	08 May 2019	---	---
Machine Hours	12725	8125	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

ALTA EQUIPMENT
 5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
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OIL CONDITION

Visc @ 100°C	cSt	13.8	13.7	---	---
Base Number (BN)	mg KOH/g	9.4	---	---	---
Oxidation (PA)	%	69	67	---	---

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 %	%	0.2	0.3	---	---
Nitration (PA)	%	55	63	---	---
Sulfation (PA)	%	60	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	3	---	---
Sodium	ppm	2	6	---	---
Potassium	ppm	5	10	---	---

WEAR METALS

Iron	ppm	3	3	---	---
Copper	ppm	<1	<1	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	1	<1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	14	4	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	2278	2090	---	---
Magnesium	ppm	48	43	---	---
Zinc	ppm	1183	1097	---	---
Phosphorus	ppm	1037	955	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	191	145	---	---

Depot: VOLVO0142
Unique No: 9840097
Signed: Wes Davis
Report Date: 08 Feb 2022



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GRAPHS

Iron (ppm)



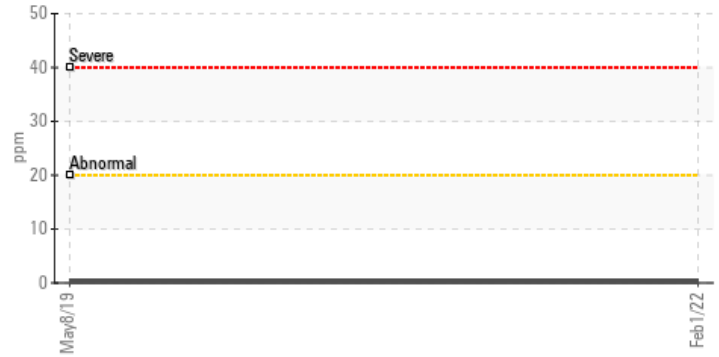
Lead (ppm)



Aluminum (ppm)



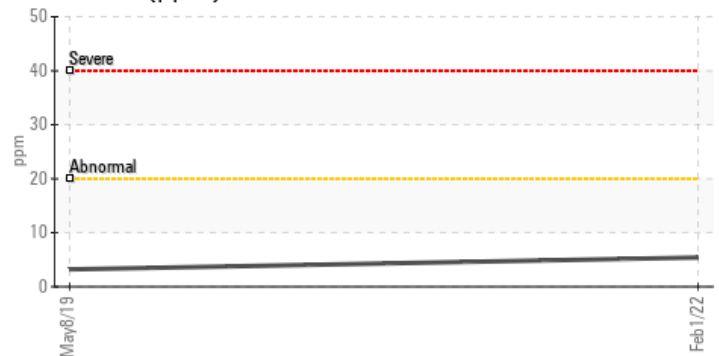
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

