



CONSTRUCTION EQUIPMENT

S50403943 VOLVO EC480E 315098 - DIESEL ENGINE



Sample No: VCP455314
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50403943



SAMPLE INFORMATION

Sample Number	VCP455314	VCP422745	---	---
Sample Date	16 Jul 2024	04 Nov 2023	---	---
Machine Hours	1468	679	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

VCES- VOLVO CONSTRUCTION EQUIPMENT
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	● 10.6	---	---
Base Number (BN)	mg KOH/g	█ 10.3	█ 5.3	---	---
Oxidation (PA)	%	84	70	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.1	---	---
Nitration (PA)	%	63	88	---	---
Sulfation (PA)	%	62	60	---	---
Glycol	%	NEG	█ 0.0	---	---
Fuel	%	<1.0	█ 0.7	---	---
Silicon	ppm	█ 7	█ 27	---	---
Sodium	ppm	█ 3	█ 4	---	---
Potassium	ppm	█ 2	█ 2	---	---



WEAR METALS

Iron	ppm	█ 9	█ 15	---	---
Copper	ppm	█ 1	▲ 184	---	---
Lead	ppm	█ <1	█ 3	---	---
Tin	ppm	█ <1	█ 2	---	---
Aluminum	ppm	█ 3	█ 2	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 46	█ 71	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 2	█ 0	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1920	█ 2072	---	---
Magnesium	ppm	█ 601	116	---	---
Zinc	ppm	█ 1344	█ 1050	---	---
Phosphorus	ppm	1187	█ 800	---	---
Barium	ppm	█ <1	█ 0	---	---
Boron	ppm	█ 56	█ 19	---	---

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.

Depot: VOLVO4486
Unique No: 11127777
Signed: Don Baldrige
Report Date: 18 Jul 2024

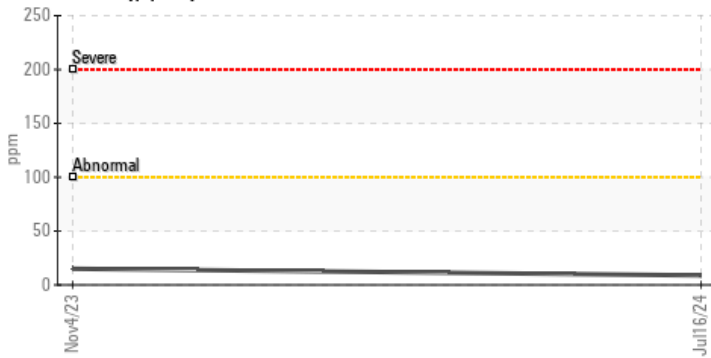


CONSTRUCTION EQUIPMENT

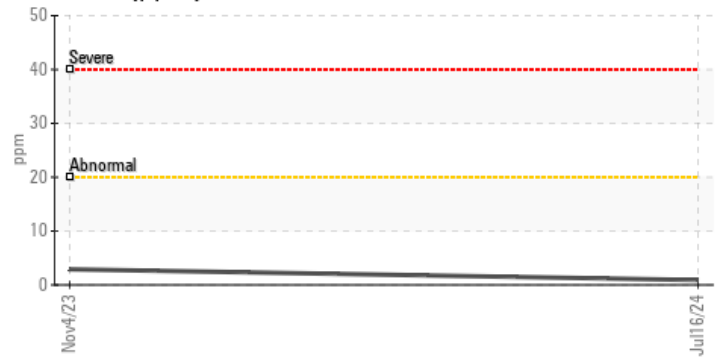


GRAPHS

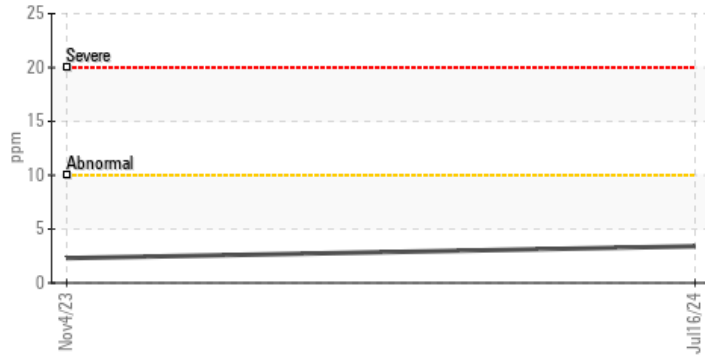
Iron (ppm)



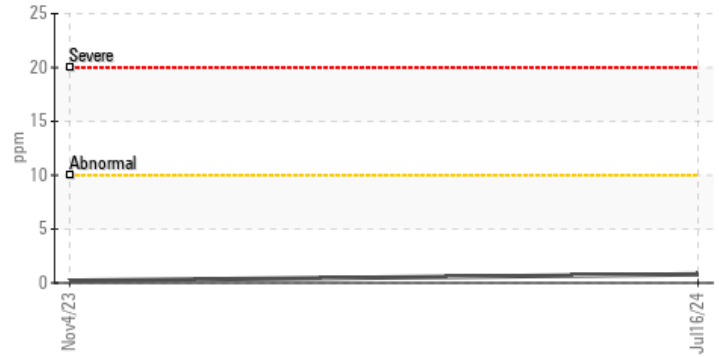
Lead (ppm)



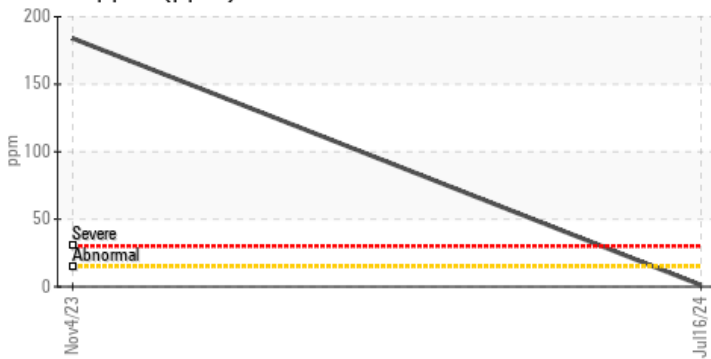
Aluminum (ppm)



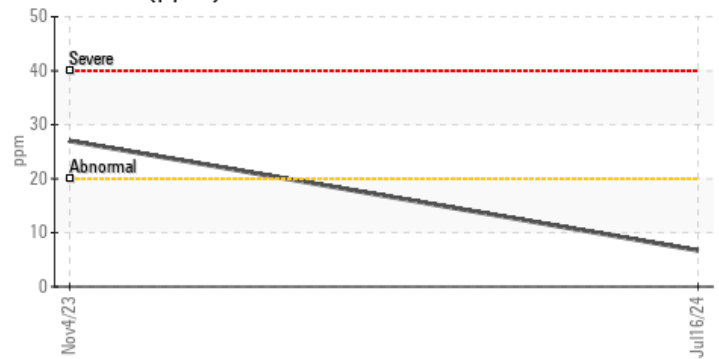
Chromium (ppm)



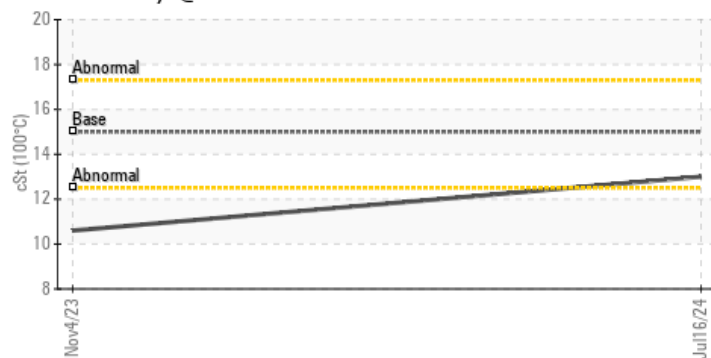
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

