



CONSTRUCTION EQUIPMENT

SPM673707 BULK EXPR VOLVO EC220EL 315538 - DIESEL ENGINE



Sample No: VCP445884
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM673707 BULK EXPR



SAMPLE INFORMATION

Sample Number	VCP445884	---	---	---
Sample Date	02 Apr 2024	---	---	---
Machine Hours	2000	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	---	---	---
Base Number (BN)	mg KOH/g	█ 8.8	---	---	---
Oxidation (PA)	%	105	---	---	---

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	90	---	---	---
Sulfation (PA)	%	68	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 47	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 1	---	---	---

WEAR METALS

Iron	ppm	█ 15	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 39	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1764	---	---	---
Magnesium	ppm	█ 508	---	---	---
Zinc	ppm	█ 1171	---	---	---
Phosphorus	ppm	█ 971	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 18	---	---	---

Depot: VOLVO0095
Unique No: 10964415
Signed: Don Baldrige
Report Date: 07 Apr 2024



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GRAPHS

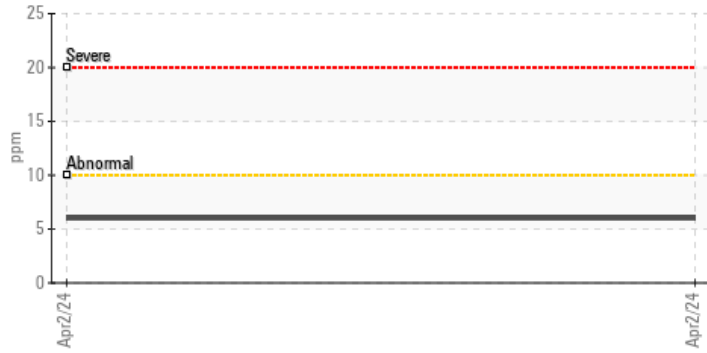
Iron (ppm)



Lead (ppm)



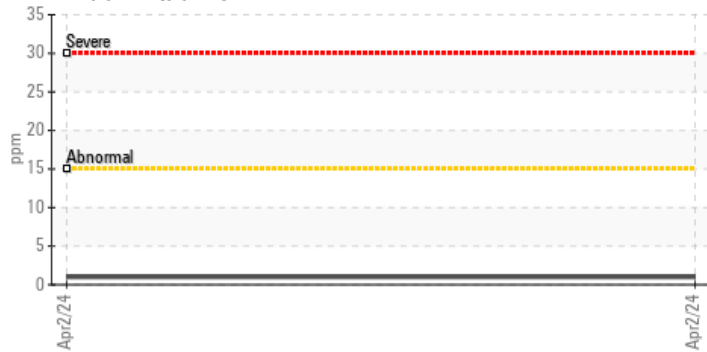
Aluminum (ppm)



Chromium (ppm)



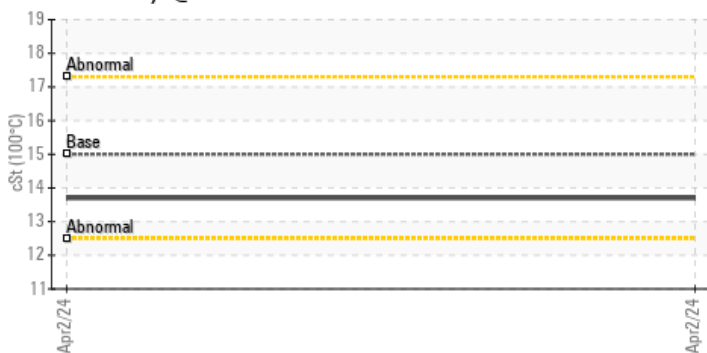
Copper (ppm)



▲ Silicon (ppm)



Viscosity @ 100°C



Base Number

