



CONSTRUCTION EQUIPMENT

101022 OCSW VOLVO L120H 632860 - DIESEL ENGINE



Sample No: VCP379845
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 101022 OCSW



SAMPLE INFORMATION

Sample Number	VCP379845	---	---	---
Sample Date	01 Nov 2022	---	---	---
Machine Hours	3780	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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 amccoy@flaglerce.com
 T:
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	---	---	---
Base Number (BN)	mg KOH/g	█ 10.7	---	---	---
Oxidation (PA)	%	83	---	---	---



CONTAMINATION

Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	73	---	---	---
Sulfation (PA)	%	64	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 33	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 0	---	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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.



WEAR METALS

Iron	ppm	█ 16	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	▲ 12	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 49	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1780	---	---	---
Magnesium	ppm	█ 521	---	---	---
Zinc	ppm	█ 1143	---	---	---
Phosphorus	ppm	█ 954	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 31	---	---	---

Depot: VOLVO0096
Unique No: 10205826
Signed: Don Baldrige
Report Date: 09 Nov 2022



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GRAPHS

Iron (ppm)



Lead (ppm)



Aluminum (ppm)



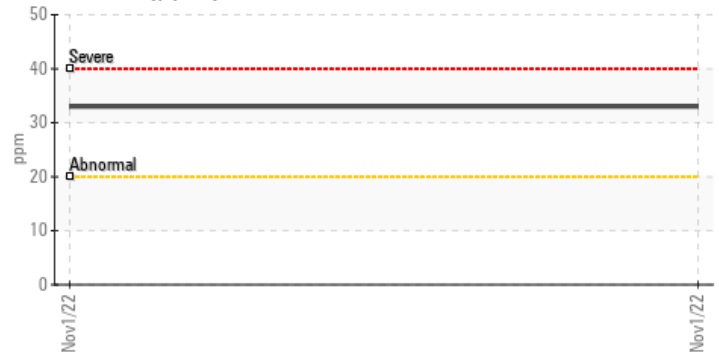
Chromium (ppm)



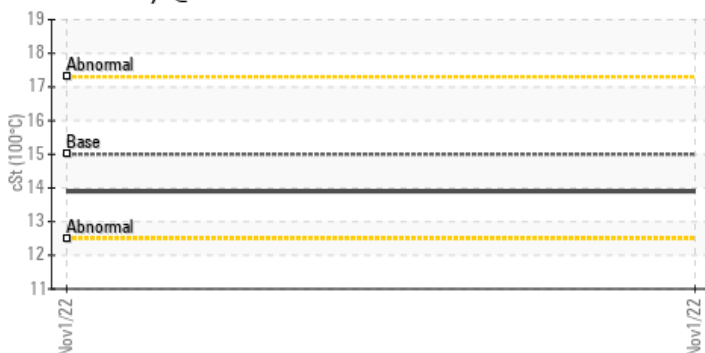
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

