



CONSTRUCTION EQUIPMENT

674847 LAKE CONWAY VOLVO L20H 1220453 - DIESEL ENGINE



Sample No: VCP446898
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 674847 LAKE CONWAY



ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
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SAMPLE INFORMATION

Sample Number	VCP446898	VCP366204	---	---
Sample Date	20 Feb 2024	21 Oct 2022	---	---
Machine Hours	1164	307	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ATTENTION	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	● 11.1	---	---
Base Number (BN)	mg KOH/g	█ 8.4	█ 11.6	---	---
Oxidation (PA)	%	94	84	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0	█ 0.1	---	---
Nitration (PA)	%	87	58	---	---
Sulfation (PA)	%	61	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 0.2	---	---
Silicon	ppm	█ 10	█ 12	---	---
Sodium	ppm	█ 3	█ 2	---	---
Potassium	ppm	█ 3	█ 0	---	---



WEAR METALS

Iron	ppm	█ 8	█ 7	---	---
Copper	ppm	▲ 23	█ 7	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 2	█ 0	---	---
Chromium	ppm	█ 1	█ <1	---	---
Molybdenum	ppm	█ 45	█ 34	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	█ 1	█ 2	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	█ 1509	█ 1795	---	---
Magnesium	ppm	█ 469	█ 413	---	---
Zinc	ppm	█ 1033	█ 1050	---	---
Phosphorus	ppm	█ 828	█ 815	---	---
Barium	ppm	█ 2	█ 0	---	---
Boron	ppm	█ 32	█ 46	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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: VOLVO0096
Unique No: 10899658
Signed: Sean Felton
Report Date: 28 Feb 2024



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GRAPHS

