



CONSTRUCTION EQUIPMENT

LKQ TAMPA VOLVO L110H 632741 - DIESEL ENGINE



Sample No: VCP444019
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: LKQ TAMPA



SAMPLE INFORMATION

Sample Number	VCP444019	VCP454183	---	---
Sample Date	23 Apr 2024	25 Jan 2024	---	---
Machine Hours	1028	541	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	█ 12.7	---	---
Base Number (BN)	mg KOH/g	█ 9.7	█ 9.3	---	---
Oxidation (PA)	%	80	69	---	---

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 has decreased, but is still 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.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.4	█ 0.4	---	---
Nitration (PA)	%	63	59	---	---
Sulfation (PA)	%	61	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 8	█ 13	---	---
Sodium	ppm	█ 1	█ 3	---	---
Potassium	ppm	█ 2	█ 2	---	---



WEAR METALS

Iron	ppm	█ 22	█ 32	---	---
Copper	ppm	█ 6	█ 13	---	---
Lead	ppm	█ 1	█ 3	---	---
Tin	ppm	█ 3	█ 3	---	---
Aluminum	ppm	▲ 16	▲ 42	---	---
Chromium	ppm	█ 1	█ 2	---	---
Molybdenum	ppm	█ 42	█ 44	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	<1	█ 0	---	---
Silver	ppm	█ <1	█ <1	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 1534	█ 1620	---	---
Magnesium	ppm	█ 506	█ 744	---	---
Zinc	ppm	█ 1088	█ 1288	---	---
Phosphorus	ppm	█ 987	█ 1057	---	---
Barium	ppm	█ 4	█ 18	---	---
Boron	ppm	█ 32	█ 29	---	---

Depot: VOLVO0093
Unique No: 11057075
Signed: Don Baldrige
Report Date: 31 May 2024



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GRAPHS

