



CONSTRUCTION EQUIPMENT

VOLVO L60H 621848 - DIESEL ENGINE



Sample No: VCP446674
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP446674	VCP426586	VCP254569	---
Sample Date	14 May 2024	18 Aug 2023	04 Oct 2019	---
Machine Hours	5769	4546	494	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.5	14.0	12.3	---
Base Number (BN)	mg KOH/g	8.0	5.4	---	---
Oxidation (PA)	%	98	90	71	---

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. The aluminum level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	1.1	2	0.2	---
Nitration (PA)	%	102	119	55	---
Sulfation (PA)	%	70	83	56	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	9	14	20	---
Sodium	ppm	1	5	5	---
Potassium	ppm	4	4	0	---



WEAR METALS

Iron	ppm	32	101	45	---
Copper	ppm	4	13	8	---
Lead	ppm	1	2	3	---
Tin	ppm	2	4	0	---
Aluminum	ppm	31	68	71	---
Chromium	ppm	3	8	10	---
Molybdenum	ppm	55	60	34	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	<1	0	0	---
Manganese	ppm	1	2	5	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	1680	1795	1486	---
Magnesium	ppm	508	632	570	---
Zinc	ppm	1129	1277	875	---
Phosphorus	ppm	968	966	804	---
Barium	ppm	0	0	<1	---
Boron	ppm	15	2	40	---

Depot: VOLVO0090
Unique No: 11035303
Signed: Sean Felton
Report Date: 21 May 2024



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GRAPHS

