



CONSTRUCTION EQUIPMENT

VOLVO L70H 624986 - DIESEL ENGINE



Sample No: VCP426730
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP426730	VCP419489	VCP393688	---
Sample Date	21 Aug 2023	31 May 2023	17 Mar 2023	---
Machine Hours	1708	1117	654	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.5	13.3	12.9	---
Base Number (BN)	mg KOH/g	9.8	10.3	9.8	---
Oxidation (PA)	%	77	73	71	---

Diagnosis

Resample at the next service interval to monitor. All 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

Soot %	%	0.5	0.4	0.3	---
Nitration (PA)	%	68	66	60	---
Sulfation (PA)	%	58	59	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	8	9	13	---
Sodium	ppm	4	6	4	---
Potassium	ppm	0	<1	1	---



WEAR METALS

Iron	ppm	18	20	22	---
Copper	ppm	2	2	7	---
Lead	ppm	0	0	1	---
Tin	ppm	1	2	3	---
Aluminum	ppm	3	5	12	---
Chromium	ppm	1	2	2	---
Molybdenum	ppm	81	55	46	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	1	3	---
Vanadium	ppm	<1	0	<1	---



ADDITIVES

Calcium	ppm	1989	1875	1607	---
Magnesium	ppm	576	559	517	---
Zinc	ppm	1283	1195	1146	---
Phosphorus	ppm	1036	972	957	---
Barium	ppm	0	0	4	---
Boron	ppm	15	30	27	---

Depot: VOLVO0090
Unique No: 10619885
Signed: Wes Davis
Report Date: 28 Aug 2023



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GRAPHS

