



CONSTRUCTION EQUIPMENT

700664 SYNERGY VOLVO L70H 623769 - DIESEL ENGINE



Sample No: VCP443736
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 700664 SYNERGY



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SAMPLE INFORMATION

Sample Number	VCP443736	VCP440375	---	---
Sample Date	03 Apr 2024	05 Oct 2023	---	---
Machine Hours	3496	3003	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	13.3	7.3	---	---
Base Number (BN)	mg KOH/g	9.4	10.3	---	---
Oxidation (PA)	%	87	33	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.3	0.1	---	---
Nitration (PA)	%	74	23	---	---
Sulfation (PA)	%	63	51	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	1.3	---	---
Silicon	ppm	7	15	---	---
Sodium	ppm	2	7	---	---
Potassium	ppm	0	0	---	---



WEAR METALS

Iron	ppm	16	114	---	---
Copper	ppm	2	36	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	<1	4	---	---
Aluminum	ppm	10	<1	---	---
Chromium	ppm	1	5	---	---
Molybdenum	ppm	41	5	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	9	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1685	3810	---	---
Magnesium	ppm	508	24	---	---
Zinc	ppm	1140	1646	---	---
Phosphorus	ppm	960	1317	---	---
Barium	ppm	0	0	---	---
Boron	ppm	33	135	---	---

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.

Depot: VOLVO0096
Unique No: 10965819
Signed: Wes Davis
Report Date: 09 Apr 2024



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GRAPHS

