



CONSTRUCTION EQUIPMENT

SWA443356 IAA VOLVO L90H 625959 - DIESEL ENGINE



Sample No: VCP449123
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA443356 IAA



SAMPLE INFORMATION

Sample Number	VCP449123	VCP433827	VCP413382	---
Sample Date	27 Dec 2023	19 Sep 2023	26 Jun 2023	---
Machine Hours	3954	3330	2774	---
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	14.6	14.6	14.7	---
Base Number (BN)	mg KOH/g	9.4	9.5	9.6	---
Oxidation (PA)	%	61	59	61	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.4	0.4	---
Nitration (PA)	%	67	62	65	---
Sulfation (PA)	%	53	53	54	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	3	4	4	---
Sodium	ppm	<1	1	<1	---
Potassium	ppm	<1	<1	1	---



WEAR METALS

Iron	ppm	55	63	78	---
Copper	ppm	<1	<1	2	---
Lead	ppm	<1	0	0	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	3	4	<1	---
Chromium	ppm	<1	2	2	---
Molybdenum	ppm	56	64	59	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	1	1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1047	1173	1108	---
Magnesium	ppm	987	1081	990	---
Zinc	ppm	1309	1387	1307	---
Phosphorus	ppm	976	1136	1026	---
Barium	ppm	0	0	14	---
Boron	ppm	0	<1	5	---

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: VOLVO0095
Unique No: 10829134
Signed: Don Baldrige
Report Date: 12 Jan 2024



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GRAPHS

