



CONSTRUCTION EQUIPMENT

PRINCE VOLVO L90H 626620 - DIESEL ENGINE



Sample No: VCP411963
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: PRINCE



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SAMPLE INFORMATION

Sample Number	VCP411963	VCP408275	VCP406512	---
Sample Date	20 Sep 2023	30 Jun 2023	11 Apr 2023	---
Machine Hours	1554	1057	514	---
Oil Hours	0	500	514	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	12.7	13.0	12.8	---
Base Number (BN)	mg KOH/g	10.6	10.0	8.7	---
Oxidation (PA)	%	78	80	69	---



CONTAMINATION

Soot %	%	0.4	0.4	0.2	---
Nitration (PA)	%	63	68	53	---
Sulfation (PA)	%	59	61	54	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	9	11	20	---
Sodium	ppm	<1	3	4	---
Potassium	ppm	<1	0	<1	---



WEAR METALS

Iron	ppm	11	18	23	---
Copper	ppm	0	2	8	---
Lead	ppm	1	0	0	---
Tin	ppm	1	1	2	---
Aluminum	ppm	3	4	22	---
Chromium	ppm	<1	2	4	---
Molybdenum	ppm	44	52	46	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	5	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1600	1765	1551	---
Magnesium	ppm	516	542	577	---
Zinc	ppm	1134	1176	1168	---
Phosphorus	ppm	972	988	969	---
Barium	ppm	0	0	0	---
Boron	ppm	30	69	110	---

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: VOLVO0093
Unique No: 10739019
Signed: Wes Davis
Report Date: 14 Nov 2023



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GRAPHS

