



CONSTRUCTION EQUIPMENT

579516 PRINCE VOLVO L90H 626545 - DIESEL ENGINE



Sample No: VCP417705
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 579516 PRINCE



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SAMPLE INFORMATION

Sample Number	VCP417705	VCP398517	---	---
Sample Date	07 Jul 2023	10 Apr 2023	---	---
Machine Hours	988	449	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	12.9	12.7	---	---
Base Number (BN)	mg KOH/g	10.3	8.6	---	---
Oxidation (PA)	%	83	70	---	---



CONTAMINATION

Soot %	%	0.2	0.1	---	---
Nitration (PA)	%	60	50	---	---
Sulfation (PA)	%	62	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	10	3	---	---
Sodium	ppm	2	4	---	---
Potassium	ppm	0	1	---	---



WEAR METALS

Iron	ppm	10	21	---	---
Copper	ppm	2	2	---	---
Lead	ppm	0	2	---	---
Tin	ppm	1	<1	---	---
Aluminum	ppm	4	4	---	---
Chromium	ppm	1	<1	---	---
Molybdenum	ppm	40	68	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1621	1193	---	---
Magnesium	ppm	494	898	---	---
Zinc	ppm	1046	1237	---	---
Phosphorus	ppm	861	1030	---	---
Barium	ppm	0	0	---	---
Boron	ppm	34	14	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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: 10551665
Signed: Wes Davis
Report Date: 12 Jul 2023



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GRAPHS

