



# CONSTRUCTION EQUIPMENT

X14085 IAA VOLVO L90H 627141 - DIESEL ENGINE



**Sample No:** VCP399197  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X14085 IAA



## SAMPLE INFORMATION

Sample Number	VCP399197	VCP400339	---	---
Sample Date	19 Apr 2024	22 Dec 2023	---	---
Machine Hours	1024	497	---	---
Oil Hours	500	497	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	NORMAL	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	8.3	12.7	---	---
Base Number (BN)	mg KOH/g	10.7	10.0	---	---
Oxidation (PA)	%	81	73	---	---



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.4	0.3	---	---
Nitration (PA)	%	61	56	---	---
Sulfation (PA)	%	62	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	0.2	<1.0	---	---
Silicon	ppm	8	19	---	---
Sodium	ppm	2	3	---	---
Potassium	ppm	<1	2	---	---



## WEAR METALS

Iron	ppm	17	27	---	---
Copper	ppm	2	7	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	<1	2	---	---
Aluminum	ppm	3	13	---	---
Chromium	ppm	<1	2	---	---
Molybdenum	ppm	42	38	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	4	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	2038	1621	---	---
Magnesium	ppm	560	621	---	---
Zinc	ppm	1317	1199	---	---
Phosphorus	ppm	1094	1003	---	---
Barium	ppm	0	2	---	---
Boron	ppm	36	46	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VOLVO6241  
**Unique No:** 10994120  
**Signed:** Don Baldrige  
**Report Date:** 26 Apr 2024



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## GRAPHS

