



CONSTRUCTION EQUIPMENT

S1085 VOLVO L150H 6996 - DIESEL ENGINE



Sample No: VCP421933
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S1085



SAMPLE INFORMATION

Sample Number	VCP421933	VCP419376	VCP375067	---
Sample Date	04 Oct 2023	01 Jun 2023	24 Aug 2022	---
Machine Hours	3078	2480	1983	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---



VCES- VOLVO CONSTRUCTION EQUIPMENT
 8594 FRUITRIDGE ROAD
 SACRAMENTO, CA
 US 95826
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	12.1	12.7	12.5	---
Base Number (BN)	mg KOH/g	9.2	10.1	12.8	---
Oxidation (PA)	%	78	80	79	---



CONTAMINATION

Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	54	57	49	---
Sulfation (PA)	%	59	64	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	1.8	<1.0	<1.0	---
Silicon	ppm	5	10	6	---
Sodium	ppm	<1	<1	2	---
Potassium	ppm	0	2	0	---



WEAR METALS

Iron	ppm	2	8	6	---
Copper	ppm	5	▲ 44	▲ 99	---
Lead	ppm	0	<1	2	---
Tin	ppm	<1	1	2	---
Aluminum	ppm	1	3	<1	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	37	39	42	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	1573	1559	1670	---
Magnesium	ppm	509	462	482	---
Zinc	ppm	1119	1195	1105	---
Phosphorus	ppm	921	1012	890	---
Barium	ppm	<1	0	0	---
Boron	ppm	33	42	35	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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: VOLVO4485
Unique No: 10699465
Signed: Wes Davis
Report Date: 19 Oct 2023



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GRAPHS

