



CONSTRUCTION EQUIPMENT

6004 VOLVO A35D 11082 - DIESEL ENGINE



Sample No: VCP434264
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 6004



SAMPLE INFORMATION

Sample Number	VCP434264	VCP382890	VCP379114	---
Sample Date	24 Apr 2024	10 Jun 2023	14 Sep 2022	---
Machine Hours	3315	2785	2180	---
Oil Hours	0	0	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.6	13.1	13.2	---
Base Number (BN)	mg KOH/g	10.1	9.8	11.1	---
Oxidation (PA)	%	79	84	86	---

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.

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.9	1.3	1.4	---
Nitration (PA)	%	60	65	73	---
Sulfation (PA)	%	64	67	71	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	10	7	---
Sodium	ppm	1	3	2	---
Potassium	ppm	0	2	1	---

WEAR METALS

Iron	ppm	10	20	14	---
Copper	ppm	0	<1	1	---
Lead	ppm	0	1	<1	---
Tin	ppm	<1	1	<1	---
Aluminum	ppm	2	4	2	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	43	49	46	---
Nickel	ppm	0	2	0	---
Titanium	ppm	0	<1	1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	0	---

ADDITIVES

Calcium	ppm	1682	1733	1682	---
Magnesium	ppm	512	516	507	---
Zinc	ppm	1092	1201	1109	---
Phosphorus	ppm	945	985	929	---
Barium	ppm	0	0	0	---
Boron	ppm	50	46	36	---

Depot: LEOMAD
Unique No: 11007268
Signed: Wes Davis
Report Date: 03 May 2024



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GRAPHS

