



CONSTRUCTION EQUIPMENT

4842DR KINSLEY CONST VOLVO A45G 352858 - DIESEL ENGINE



Sample No: VCP404497
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 4842DR KINSLEY CONST



SAMPLE INFORMATION

Sample Number	VCP404497	VCP399668	---	---
Sample Date	14 Dec 2023	06 Sep 2023	---	---
Machine Hours	3032	2577	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

HIGHWAY EQUIPMENT & SUPPLY CO
 PO BOX 127
 DRUMS, PA
 US 18222
 Contact: JUSTIN BLOSS
 justin@hwyequip.com
 T: (570)788-1127
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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.3	---	---
Base Number (BN)	mg KOH/g	7.2	8.6	---	---
Oxidation (PA)	%	40	51	---	---

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	---	---
Soot %	%	0.2	0.2	---	---
Nitration (PA)	%	58	51	---	---
Sulfation (PA)	%	45	48	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	4	4	---	---
Sodium	ppm	<1	2	---	---
Potassium	ppm	2	0	---	---



WEAR METALS

Iron	ppm	6	8	---	---
Copper	ppm	4	2	---	---
Lead	ppm	0	0	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	2	7	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	12	55	---	---
Nickel	ppm	2	2	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	2064	1240	---	---
Magnesium	ppm	193	916	---	---
Zinc	ppm	1109	1294	---	---
Phosphorus	ppm	966	1066	---	---
Barium	ppm	0	0	---	---
Boron	ppm	4	5	---	---

Depot: VOLVO0022
Unique No: 10794198
Signed: Wes Davis
Report Date: 20 Dec 2023



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GRAPHS

