



CONSTRUCTION EQUIPMENT

W07013155-1 PENN VOLVO A25G 742293 - DIESEL ENGINE



Sample No: VCP407651
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: W07013155-1 PENN



SAMPLE INFORMATION

Sample Number	VCP407651	VCE194876	VCP250183	---
Sample Date	09 Aug 2023	17 Dec 2021	09 Aug 2021	---
Machine Hours	2028	2103	1632	---
Oil Hours	0	500	0	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	ATTENTION	ATTENTION	---

McClung-Logan Virginia LLC- RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
 Contact: KYLE RATLIFFE
 KRATLIFFE@MCCLUNG-LOGAN.COM
 T:
 F: (804)266-1611



OIL CONDITION

Visc @ 100°C	cSt	15.1	11.5	12.3	---
Base Number (BN)	mg KOH/g	9.1	7.9	---	---
Oxidation (PA)	%	78	71	80	---

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

Soot %	%	2.1	0.2	0.2	---
Nitration (PA)	%	99	80	68	---
Sulfation (PA)	%	70	56	61	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	2.6	2.0	---
Silicon	ppm	8	4	5	---
Sodium	ppm	4	4	<1	---
Potassium	ppm	3	0	1	---



WEAR METALS

Iron	ppm	36	7	8	---
Copper	ppm	9	2	5	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	3	3	<1	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	51	49	34	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	<1	0	<1	---
Manganese	ppm	1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1593	1204	1597	---
Magnesium	ppm	686	707	429	---
Zinc	ppm	1348	879	1013	---
Phosphorus	ppm	1079	732	912	---
Barium	ppm	0	0	0	---
Boron	ppm	24	40	54	---

Depot: VOLVO8882
Unique No: 10602578
Signed: Wes Davis
Report Date: 14 Aug 2023



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GRAPHS

