



CONSTRUCTION EQUIPMENT

X47389 VOLVO A25G 752644 - DIESEL ENGINE



Sample No: VCP415854
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X47389



SAMPLE INFORMATION

Sample Number	VCP415854	VCP407876	VCP395487	---
Sample Date	10 Aug 2023	16 May 2023	08 Mar 2023	---
Machine Hours	1428	770	375	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	N/A	---
Sample Status	NORMAL	ATTENTION	ABNORMAL	---

SCOTT EQUIPMENT COMPANY LLC - Lake Charles
 PO BOX 16955
 LAKE CHARLES, LA
 US 70616
 Contact: SAMANTHA SOILEAU
 ssoileau@scottcompanies.com
 T: (337)433-9811
 F: (318)433-6623

OIL CONDITION

Visc @ 100°C	cSt	12.8	12.4	10.5	---
Base Number (BN)	mg KOH/g	9.2	8.7	7.4	---
Oxidation (PA)	%	57	57	54	---

CONTAMINATION

Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	53	57	73	---
Sulfation (PA)	%	51	52	51	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.4	---
Silicon	ppm	4	12	40	---
Sodium	ppm	1	2	1	---
Potassium	ppm	<1	3	5	---

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 acceptable for the time in service.

WEAR METALS

Iron	ppm	7	8	14	---
Copper	ppm	6	29	104	---
Lead	ppm	<1	1	1	---
Tin	ppm	<1	<1	2	---
Aluminum	ppm	2	<1	3	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	60	69	84	---
Nickel	ppm	0	<1	1	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	<1	<1	1	---
Manganese	ppm	<1	1	3	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1076	1608	2210	---
Magnesium	ppm	948	808	12	---
Zinc	ppm	1322	1577	1155	---
Phosphorus	ppm	1118	1169	995	---
Barium	ppm	0	0	0	---
Boron	ppm	2	11	56	---

Depot: VOLVO6244
Unique No: 10605802
Signed: Don Baldrige
Report Date: 17 Aug 2023



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GRAPHS

