



CONSTRUCTION EQUIPMENT

19744 VOLVO A45G 353004 - DIESEL ENGINE



Sample No: VCP419717
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 19744



SAMPLE INFORMATION

Sample Number	VCP419717	VCP419664	VCP368668	---
Sample Date	13 Sep 2023	12 May 2023	01 Dec 2022	---
Machine Hours	5188	4522	3783	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

TRADER CONSTRUCTION-VC
P.O. DRAWER 1578
NEW BERN, NC
US 28563
Contact: JOSH HUMPHREYS

OIL CONDITION

Visc @ 100°C	cSt	12.5	12.9	12.7	---
Base Number (BN)	mg KOH/g	7.5	8.3	10.5	---
Oxidation (PA)	%	58	61	81	---

T: (252)633-1399
F: (252)633-3981

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.

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.3	0.2	---
Nitration (PA)	%	73	66	60	---
Sulfation (PA)	%	52	53	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	3	3	2	---
Sodium	ppm	<1	<1	2	---
Potassium	ppm	<1	0	0	---

WEAR METALS

Iron	ppm	7	7	0	---
Copper	ppm	2	2	3	---
Lead	ppm	0	0	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	2	2	<1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	60	63	43	---
Nickel	ppm	3	3	1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1046	1161	1681	---
Magnesium	ppm	967	959	551	---
Zinc	ppm	1270	1246	1133	---
Phosphorus	ppm	1083	1029	912	---
Barium	ppm	0	0	0	---
Boron	ppm	6	4	49	---

Depot: TRANEWVC
Unique No: 10701636
Signed: Don Baldrige
Report Date: 21 Oct 2023



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GRAPHS

