



CONSTRUCTION EQUIPMENT

VOLVO A45G 352787 - DIESEL ENGINE



Sample No: VCP412294
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP412294	VCP374377	VCP344117	VCP344750
Sample Date	21 Aug 2023	05 Jun 2022	28 Jan 2022	18 Oct 2021
Machine Hours	3708	0	0	586
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	ATTENTION

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.4	11.5	10.9
Base Number (BN)	mg KOH/g	8.6	11.1	10.8	---
Oxidation (PA)	%	76	85	88	62

CONTAMINATION

Soot %	%	0.6	0.3	0.3	0.3
Nitration (PA)	%	68	65	69	57
Sulfation (PA)	%	61	64	68	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.4
Silicon	ppm	6	6	5	28
Sodium	ppm	4	3	2	2
Potassium	ppm	0	0	0	<1

WEAR METALS

Iron	ppm	14	11	8	22
Copper	ppm	60	9	19	15
Lead	ppm	1	1	0	2
Tin	ppm	1	<1	<1	4
Aluminum	ppm	3	4	1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	47	41	42	59
Nickel	ppm	2	1	<1	4
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	<1	2
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1816	1660	1633	1726
Magnesium	ppm	547	497	463	383
Zinc	ppm	1121	1089	1021	1194
Phosphorus	ppm	924	947	837	1007
Barium	ppm	0	0	0	0
Boron	ppm	27	72	25	98

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.

Depot: VOLVO0090
Unique No: 10619891
Signed: Wes Davis
Report Date: 28 Aug 2023



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GRAPHS

