



CONSTRUCTION EQUIPMENT

VOLVO A45G 352787 - DIESEL ENGINE



Sample No: VCP450997
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP450997	VCP412294	VCP374377	VCP344117
Sample Date	30 May 2024	21 Aug 2023	05 Jun 2022	28 Jan 2022
Machine Hours	5058	3708	0	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.5	12.4	11.5
Base Number (BN)	mg KOH/g	8.7	8.6	11.1	10.8
Oxidation (PA)	%	77	76	85	88

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	NEG	NEG
Soot %	%	0.7	0.6	0.3	0.3
Nitration (PA)	%	68	68	65	69
Sulfation (PA)	%	60	61	64	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	6	5
Sodium	ppm	2	4	3	2
Potassium	ppm	1	0	0	0



WEAR METALS

Iron	ppm	14	14	11	8
Copper	ppm	7	60	9	19
Lead	ppm	1	1	1	0
Tin	ppm	1	1	<1	<1
Aluminum	ppm	3	3	4	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	49	47	41	42
Nickel	ppm	2	2	1	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1645	1816	1660	1633
Magnesium	ppm	511	547	497	463
Zinc	ppm	1124	1121	1089	1021
Phosphorus	ppm	957	924	947	837
Barium	ppm	0	0	0	0
Boron	ppm	30	27	72	25

Depot: VOLVO0090
Unique No: 11059528
Signed: Wes Davis
Report Date: 04 Jun 2024



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GRAPHS

