



CONSTRUCTION EQUIPMENT

VOLVO A25G 752074 - DIESEL ENGINE



Sample No: VCP443052
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP443052	VCP398066	VCP362889	VCP314707
Sample Date	28 Nov 2023	06 Mar 2023	13 May 2022	28 Apr 2021
Machine Hours	4301	3204	2145	522
Oil Hours	0	0	0	522
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.8	12.7	11.8
Base Number (BN)	mg KOH/g	10.0	10.1	10.5	---
Oxidation (PA)	%	82	79	87	72

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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 %	%	0.3	0.3	1.2	0.2
Nitration (PA)	%	62	65	81	62
Sulfation (PA)	%	61	61	71	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.4	<1.0	<1.0	0.4
Silicon	ppm	4	2	4	27
Sodium	ppm	4	0	1	3
Potassium	ppm	<1	<1	0	11



WEAR METALS

Iron	ppm	3	6	12	19
Copper	ppm	<1	<1	▲ 29	▲ 381
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	0	2	0
Aluminum	ppm	1	0	2	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	37	42	49	54
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	2
Manganese	ppm	<1	0	<1	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1560	1652	1714	1164
Magnesium	ppm	481	427	529	854
Zinc	ppm	1057	1053	1046	1153
Phosphorus	ppm	899	899	922	951
Barium	ppm	0	<1	0	0
Boron	ppm	29	52	65	16

Depot: JRDKIS
Unique No: 10764790
Signed: Wes Davis
Report Date: 01 Dec 2023



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GRAPHS

