



CONSTRUCTION EQUIPMENT

VOLVO A25G 752077 - DIESEL ENGINE



Sample No: VCP415995
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP415995	VCP399486	VCP320213	VCP308245
Sample Date	14 Jun 2023	16 Feb 2023	10 Aug 2021	28 Apr 2021
Machine Hours	3896	3060	1045	499
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.3	12.8	11.7
Base Number (BN)	mg KOH/g	8.6	8.2	---	---
Oxidation (PA)	%	77	45	74	69

CONTAMINATION

Soot %	%	0.8	0.1	0.3	0.2
Nitration (PA)	%	83	43	63	65
Sulfation (PA)	%	61	46	61	58
Glycol	%	NEG	0.0	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.3
Silicon	ppm	5	8	6	24
Sodium	ppm	4	4	3	2
Potassium	ppm	0	0	2	5

WEAR METALS

Iron	ppm	23	35	12	21
Copper	ppm	31	52	55	410
Lead	ppm	0	1	<1	<1
Tin	ppm	1	2	2	3
Aluminum	ppm	2	2	0	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	56	58	41	62
Nickel	ppm	0	0	<1	3
Titanium	ppm	<1	<1	13	<1
Silver	ppm	<1	<1	<1	2
Manganese	ppm	1	2	1	5
Vanadium	ppm	<1	0	<1	0

ADDITIVES

Calcium	ppm	1699	1600	1714	1089
Magnesium	ppm	708	584	559	884
Zinc	ppm	1206	1038	1159	1147
Phosphorus	ppm	990	789	975	995
Barium	ppm	0	0	0	<1
Boron	ppm	9	9	47	18

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: 10563389
Signed: Jonathan Hester
Report Date: 20 Jul 2023



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GRAPHS

