



CONSTRUCTION EQUIPMENT

X38229 VOLVO A25G 752299 - DIESEL ENGINE



Sample No: VCP442778
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X38229



SAMPLE INFORMATION

Sample Number	VCP442778	VCP416895	VCP414180	VCP400915
Sample Date	20 Feb 2024	18 Oct 2023	24 Aug 2023	05 Jun 2023
Machine Hours	0	5905	5368	0
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	N/A
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.5	12.4	12.4
Base Number (BN)	mg KOH/g	7.3	9.9	9.9	10.6
Oxidation (PA)	%	92	76	79	82

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. 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 %	%	0.2	0.1	0.1	0.1
Nitration (PA)	%	84	47	53	50
Sulfation (PA)	%	62	59	60	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	4	3	3
Sodium	ppm	5	0	3	2
Potassium	ppm	▲ 47	1	5	<1

WEAR METALS

Iron	ppm	22	3	4	4
Copper	ppm	3	1	2	2
Lead	ppm	1	<1	1	<1
Tin	ppm	2	<1	<1	<1
Aluminum	ppm	5	2	2	0
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	194	42	34	39
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	0	<1	<1
Vanadium	ppm	<1	0	<1	0

ADDITIVES

Calcium	ppm	2200	1603	1412	1576
Magnesium	ppm	685	484	420	468
Zinc	ppm	1511	1134	950	1049
Phosphorus	ppm	1108	1015	777	900
Barium	ppm	34	0	0	0
Boron	ppm	69	51	33	52

Depot: DIPMED
Unique No: 10898165
Signed: Jonathan Hester
Report Date: 28 Feb 2024



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GRAPHS

