



CONSTRUCTION EQUIPMENT

X38228 VOLVO A25G 752205 - DIESEL ENGINE



Sample No: VCP442777
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X38228



SAMPLE INFORMATION

Sample Number	VCP442777	VCP414311	VCP386993	VCP375131
Sample Date	20 Feb 2024	11 Oct 2023	09 Mar 2023	07 Jul 2022
Machine Hours	0	0	4631	2000
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	N/A	N/A
Sample Status	NORMAL	NORMAL	ATTENTION	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.6	12.3	12.2
Base Number (BN)	mg KOH/g	10.4	10.7	10.5	8.3
Oxidation (PA)	%	80	81	80	83

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 %	%	0.1	0.1	0.2	0.3
Nitration (PA)	%	50	49	56	79
Sulfation (PA)	%	61	62	61	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.7
Silicon	ppm	6	4	4	8
Sodium	ppm	4	3	2	2
Potassium	ppm	2	2	0	0



WEAR METALS

Iron	ppm	5	4	4	17
Copper	ppm	1	1	1	437
Lead	ppm	<1	0	0	5
Tin	ppm	<1	<1	0	3
Aluminum	ppm	2	2	<1	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	38	39	40	42
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	<1	2
Manganese	ppm	<1	0	1	1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1369	1561	1609	1563
Magnesium	ppm	432	487	506	516
Zinc	ppm	953	1120	1115	1079
Phosphorus	ppm	770	946	882	885
Barium	ppm	34	0	0	0
Boron	ppm	52	52	44	21

Depot: DIPMED
Unique No: 10898168
Signed: Wes Davis
Report Date: 27 Feb 2024



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GRAPHS

