



CONSTRUCTION EQUIPMENT

SWO-068624 VOLVO A45G 352769 - DIESEL ENGINE



Sample No: VCP441231
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-068624



SAMPLE INFORMATION

Sample Number	VCP441231	VCP433858	VCP408948	VCP402397
Sample Date	05 Jan 2024	20 Sep 2023	21 Jun 2023	02 Mar 2023
Machine Hours	4942	4400	3875	3355
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.4	12.8	12.6
Base Number (BN)	mg KOH/g	9.7	10.1	10.2	10.6
Oxidation (PA)	%	74	80	81	77

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	56	53	58	56
Sulfation (PA)	%	57	60	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.5	<1.0	<1.0
Silicon	ppm	3	4	5	3
Sodium	ppm	0	2	3	0
Potassium	ppm	0	0	1	<1



WEAR METALS

Iron	ppm	2	6	7	4
Copper	ppm	<1	<1	1	0
Lead	ppm	<1	<1	2	0
Tin	ppm	<1	<1	1	0
Aluminum	ppm	1	0	0	0
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	42	40	44	42
Nickel	ppm	1	<1	1	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	1	0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1499	1743	1764	1606
Magnesium	ppm	601	510	543	466
Zinc	ppm	1160	1129	1154	1047
Phosphorus	ppm	957	907	972	882
Barium	ppm	0	0	4	<1
Boron	ppm	28	47	60	54

Depot: SAIBIR
Unique No: 10830438
Signed: Don Baldrige
Report Date: 15 Jan 2024



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GRAPHS

