



CONSTRUCTION EQUIPMENT

SWO-063459 VOLVO A45G 342067 - DIESEL ENGINE



Sample No: VCP424310
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-063459



SAMPLE INFORMATION

Sample Number	VCP424310	VCP393642	VCP369068	VCP355478
Sample Date	22 Jun 2023	14 Feb 2023	03 Nov 2022	04 Aug 2022
Machine Hours	6450	5835	5435	4970
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

WHITAKER CONTRACTING

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.6	12.8	12.8
Base Number (BN)	mg KOH/g	10.4	6.8	11.6	10.9
Oxidation (PA)	%	82	68	82	85

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

Soot %	%	0.3	0.1	0.2	0.3
Nitration (PA)	%	59	80	58	64
Sulfation (PA)	%	62	56	63	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	4	6
Sodium	ppm	4	3	2	3
Potassium	ppm	2	0	0	2



WEAR METALS

Iron	ppm	8	7	6	4
Copper	ppm	2	<1	<1	1
Lead	ppm	1	<1	<1	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	0	<1	1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	44	47	44	39
Nickel	ppm	1	1	<1	1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1741	1652	1613	1474
Magnesium	ppm	530	535	530	497
Zinc	ppm	1141	1112	1128	1040
Phosphorus	ppm	944	914	909	868
Barium	ppm	<1	0	0	0
Boron	ppm	47	63	45	41

Depot: WHIGUN
Unique No: 10535838
Signed: Wes Davis
Report Date: 30 Jun 2023



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VOLVO GRAPHS

