



CONSTRUCTION EQUIPMENT

SWO-066610 VOLVO A60H 340099 - DIESEL ENGINE



Sample No: VCP428923
Oil Type: Diesel Engine Oil
Job No: SWO-066610



SAMPLE INFORMATION

Sample Number	VCP428923	VCP412986	VCP382581	VCP383729
Sample Date	11 Oct 2023	18 Jul 2023	27 Mar 2023	14 Oct 2022
Machine Hours	7982	7491	7019	6595
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	12.4	12.9	12.8	13.1
Base Number (BN)	mg KOH/g	9.8	9.9	9.0	9.6
Oxidation (PA)	%	78	79	74	79



CONTAMINATION

Soot %	%	0.3	0.5	0.3	0.7
Nitration (PA)	%	56	61	57	79
Sulfation (PA)	%	60	62	55	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	9	8
Sodium	ppm	3	2	4	6
Potassium	ppm	0	0	2	2



WEAR METALS

Iron	ppm	5	10	10	11
Copper	ppm	<1	<1	2	2
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	3	1	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	45	41	38
Nickel	ppm	<1	1	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1574	1837	1603	1629
Magnesium	ppm	422	565	506	556
Zinc	ppm	786	1234	1048	869
Phosphorus	ppm	670	1008	885	777
Barium	ppm	0	0	0	0
Boron	ppm	38	46	51	31

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: SAIBIR
Unique No: 10698250
Signed: Angela Borella
Report Date: 18 Oct 2023



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VOLVO GRAPHS

