



CONSTRUCTION EQUIPMENT

VOLVO A40G 342610 - DIESEL ENGINE



Sample No: VCP433204
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP433204	VCP416996	VCP312889	VCP405980
Sample Date	27 Mar 2024	07 Feb 2024	04 Dec 2023	24 Oct 2023
Machine Hours	11444	11084	10786	10504
Oil Hours	360	298	286	271
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.7	12.8	12.7
Base Number (BN)	mg KOH/g	8.2	7.5	7.1	8.7
Oxidation (PA)	%	69	63	60	69

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 %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	67	67	68	63
Sulfation (PA)	%	55	52	50	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	5	5
Sodium	ppm	6	4	0	3
Potassium	ppm	5	2	2	2



WEAR METALS

Iron	ppm	11	9	5	6
Copper	ppm	<1	1	<1	<1
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	5	4	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	89	97	117	87
Nickel	ppm	2	3	2	4
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1412	1191	1259	1436
Magnesium	ppm	567	540	629	604
Zinc	ppm	825	790	841	924
Phosphorus	ppm	680	630	691	762
Barium	ppm	0	34	11	<1
Boron	ppm	110	92	126	91

Depot: SCHGRE
Unique No: 10963038
Signed: Wes Davis
Report Date: 04 Apr 2024

VOLVO **GRAPHS**

