



CONSTRUCTION EQUIPMENT

VOLVO A40G 342610 - DIESEL ENGINE



Sample No: VCP312889
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP312889	VCP405980	VCP406110	VCP402329
Sample Date	04 Dec 2023	24 Oct 2023	24 Aug 2023	13 Jul 2023
Machine Hours	10786	10504	10233	9910
Oil Hours	286	271	323	238
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.7	12.4	12.6
Base Number (BN)	mg KOH/g	7.1	8.7	10.2	10.3
Oxidation (PA)	%	60	69	80	80

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	0.1
Nitration (PA)	%	68	63	53	51
Sulfation (PA)	%	50	55	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	4	2
Sodium	ppm	0	3	2	0
Potassium	ppm	2	2	<1	1

WEAR METALS

Iron	ppm	5	6	5	4
Copper	ppm	<1	<1	0	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	4	5	1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	117	87	37	42
Nickel	ppm	2	4	<1	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1259	1436	1651	1685
Magnesium	ppm	629	604	521	477
Zinc	ppm	841	924	863	893
Phosphorus	ppm	691	762	723	762
Barium	ppm	11	<1	2	2
Boron	ppm	126	91	43	56

Depot: SCHGRE
Unique No: 10782828
Signed: Don Baldrige
Report Date: 15 Dec 2023

VOLVO **GRAPHS**

