



CONSTRUCTION EQUIPMENT

VOLVO A40F 12382 - DIESEL ENGINE



Sample No: VCP312560
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP312560	VCP385110	VCP379364	VCP402322
Sample Date	01 Sep 2023	26 Jul 2023	26 Jun 2023	16 May 2023
Machine Hours	13992	13692	13506	13254
Oil Hours	300	186	252	235
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.6	12.7	12.9
Base Number (BN)	mg KOH/g	10.4	9.5	10.1	10.2
Oxidation (PA)	%	79	76	82	79

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 %	%	0.2	0.1	0.3	0.4
Nitration (PA)	%	50	46	50	53
Sulfation (PA)	%	60	58	61	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	9	11	16
Sodium	ppm	<1	2	2	2
Potassium	ppm	2	<1	1	4



WEAR METALS

Iron	ppm	7	5	7	11
Copper	ppm	<1	<1	<1	4
Lead	ppm	<1	<1	0	2
Tin	ppm	<1	0	<1	1
Aluminum	ppm	6	2	4	6
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	42	39	41	38
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1658	1743	1785	1736
Magnesium	ppm	469	522	537	512
Zinc	ppm	904	900	974	935
Phosphorus	ppm	735	751	795	727
Barium	ppm	0	0	0	0
Boron	ppm	54	60	60	54

Depot: SCHGRE
Unique No: 10671666
Signed: Wes Davis
Report Date: 02 Oct 2023



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GRAPHS

