



CONSTRUCTION EQUIPMENT

VOLVO A40F 12382 - DIESEL ENGINE



Sample No: VCP339735
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP339735	VCP312560	VCP385110	VCP379364
Sample Date	10 Oct 2023	01 Sep 2023	26 Jul 2023	26 Jun 2023
Machine Hours	14258	13992	13692	13506
Oil Hours	266	300	186	252
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.4	12.6	12.7
Base Number (BN)	mg KOH/g	7.7	10.4	9.5	10.1
Oxidation (PA)	%	62	79	76	82



CONTAMINATION

Soot %	%	0.2	0.2	0.1	0.3
Nitration (PA)	%	60	50	46	50
Sulfation (PA)	%	51	60	58	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	11	9	11
Sodium	ppm	2	<1	2	2
Potassium	ppm	2	2	<1	1



WEAR METALS

Iron	ppm	6	7	5	7
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	<1	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	7	6	2	4
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	100	42	39	41
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1353	1658	1743	1785
Magnesium	ppm	611	469	522	537
Zinc	ppm	869	904	900	974
Phosphorus	ppm	743	735	751	795
Barium	ppm	0	0	0	0
Boron	ppm	103	54	60	60

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: SCHGRE
Unique No: 10700649
Signed: Wes Davis
Report Date: 20 Oct 2023

VOLVO **GRAPHS**

