



# CONSTRUCTION EQUIPMENT

## VOLVO A40F 12386 - DIESEL ENGINE



**Sample No:** VCP362810  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP362810	VCP393270	VCP402928	VCP385229
Sample Date	19 Oct 2023	29 Aug 2023	19 Jul 2023	07 Jun 2023
Machine Hours	11856	11652	11382	11131
Oil Hours	204	270	251	183
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	13.0	12.6	12.7	12.9
Base Number (BN)	mg KOH/g	8.7	9.7	10.7	10.5
Oxidation (PA)	%	68	75	78	76

### CONTAMINATION

Soot %	%	0.3	0.4	0.4	0.2
Nitration (PA)	%	55	50	49	44
Sulfation (PA)	%	56	59	61	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	9	9	6
Sodium	ppm	5	4	11	2
Potassium	ppm	3	1	15	<1

### WEAR METALS

Iron	ppm	6	5	6	4
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	5	3	3	<1
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	78	39	43	36
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0

### ADDITIVES

Calcium	ppm	1440	1661	1663	1559
Magnesium	ppm	575	530	482	462
Zinc	ppm	903	908	889	843
Phosphorus	ppm	749	779	761	707
Barium	ppm	<1	0	2	0
Boron	ppm	78	41	46	56

### 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:** 10723712  
**Signed:** Wes Davis  
**Report Date:** 02 Nov 2023



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## VOLVO GRAPHS

