



CONSTRUCTION EQUIPMENT

VOLVO A40F 12386 - DIESEL ENGINE



Sample No: VCP402928
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP402928	VCP385229	VCP406633	VCP406069
Sample Date	19 Jul 2023	07 Jun 2023	02 May 2023	22 Mar 2023
Machine Hours	11382	11131	10948	10781
Oil Hours	251	183	167	223
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SCHILDBERG CONSTRUCTION COMPANY
 PO BOX 358
 GREENFIELD, IA
 US 50849
 Contact: SCOTT ARMSTRONG
 sarmstrong@schildberg.com
 T: (641)743-8237
 F: (641)743-2486



OIL CONDITION

Visc @ 100°C	cSt	12.7	12.9	13.0	12.6
Base Number (BN)	mg KOH/g	10.7	10.5	9.2	9.5
Oxidation (PA)	%	78	76	71	74

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 %	%	0.4	0.2	0.2	0.3
Nitration (PA)	%	49	44	43	51
Sulfation (PA)	%	61	61	54	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	6	8	5
Sodium	ppm	11	2	1	3
Potassium	ppm	15	<1	<1	<1



WEAR METALS

Iron	ppm	6	4	4	6
Copper	ppm	<1	<1	0	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	<1	0
Aluminum	ppm	3	<1	3	3
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	43	36	40	41
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1663	1559	1784	1804
Magnesium	ppm	482	462	533	564
Zinc	ppm	889	843	913	986
Phosphorus	ppm	761	707	805	840
Barium	ppm	2	0	0	0
Boron	ppm	46	56	60	40

Depot: SCHGRE
Unique No: 10586121
Signed: Jonathan Hester
Report Date: 03 Aug 2023

VOLVO GRAPHS

