



CONSTRUCTION EQUIPMENT

VOLVO A40F 12386 - DIESEL ENGINE



Sample No: VCP447724
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP447724	VCP435803	VCP433632	VCP331517
Sample Date	18 Jun 2024	22 Apr 2024	19 Mar 2024	05 Feb 2024
Machine Hours	13301	12894	2744	12336
Oil Hours	407	262	296	480
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.7	12.7	12.5
Base Number (BN)	mg KOH/g	9.9	8.9	7.0	6.7
Oxidation (PA)	%	78	69	57	59

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.6	0.4	0.3	0.5
Nitration (PA)	%	61	57	69	76
Sulfation (PA)	%	61	57	49	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	7	7	13
Sodium	ppm	2	2	3	5
Potassium	ppm	2	2	1	3



WEAR METALS

Iron	ppm	8	5	3	9
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	<1	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	4	4	6	7
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	44	67	121	115
Nickel	ppm	0	<1	<1	1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	1579	1515	1301	1144
Magnesium	ppm	488	534	660	600
Zinc	ppm	872	887	849	827
Phosphorus	ppm	711	755	706	658
Barium	ppm	0	0	0	34
Boron	ppm	41	82	123	95

Depot: SCHGRE
Unique No: 11110465
Signed: Don Baldrige
Report Date: 05 Jul 2024



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VOLVO GRAPHS

