



CONSTRUCTION EQUIPMENT

SWO-064335 VOLVO A40F 11843 - DIESEL ENGINE



Sample No: VCP414001
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWO-064335



SAMPLE INFORMATION

Sample Number	VCP414001	VCP392776	VCP397972	VCP364229
Sample Date	02 Aug 2023	12 Apr 2023	08 Dec 2022	29 Aug 2022
Machine Hours	6103	5555	5050	4525
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.3	12.4	12.5
Base Number (BN)	mg KOH/g	9.5	8.8	10.2	11.6
Oxidation (PA)	%	76	75	71	84

CONTAMINATION

Soot %	%	0.4	0.3	0.4	0.4
Nitration (PA)	%	63	59	75	73
Sulfation (PA)	%	59	55	60	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	1.0	<1.0
Silicon	ppm	5	6	2	5
Sodium	ppm	0	2	0	1
Potassium	ppm	1	1	1	1

WEAR METALS

Iron	ppm	7	8	7	7
Copper	ppm	<1	<1	1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	0	1	2
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	41	43	56	41
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	1688	1587	1303	1577
Magnesium	ppm	474	522	778	465
Zinc	ppm	1109	1087	1143	1085
Phosphorus	ppm	938	918	977	885
Barium	ppm	0	0	0	0
Boron	ppm	39	46	15	34

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: SAIBIR
Unique No: 10589083
Signed: Don Baldrige
Report Date: 08 Aug 2023



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GRAPHS

