



CONSTRUCTION EQUIPMENT

VOLVO A40F 11843 - DIESEL ENGINE



Sample No: VCP431888

Oil Type: DIESEL ENGINE OIL SAE 15W40

Job No:



SAMPLE INFORMATION

Sample Number	VCP431888	VCP414001	VCP392776	VCP397972
Sample Date	01 Nov 2023	02 Aug 2023	12 Apr 2023	08 Dec 2022
Machine Hours	6592	6103	5555	5050
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.5	12.3	12.4
Base Number (BN)	mg KOH/g	9.6	9.5	8.8	10.2
Oxidation (PA)	%	77	76	75	71

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	0.4	0.3	0.4
Nitration (PA)	%	63	63	59	75
Sulfation (PA)	%	60	59	55	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.0
Silicon	ppm	4	5	6	2
Sodium	ppm	3	0	2	0
Potassium	ppm	0	1	1	1



WEAR METALS

Iron	ppm	6	7	8	7
Copper	ppm	1	<1	<1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	1	0	1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	40	41	43	56
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1477	1688	1587	1303
Magnesium	ppm	548	474	522	778
Zinc	ppm	1109	1109	1087	1143
Phosphorus	ppm	930	938	918	977
Barium	ppm	0	0	0	0
Boron	ppm	29	39	46	15

Depot: SAIBIR

Unique No: 10743040

Signed: Don Baldrige

Report Date: 19 Nov 2023



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GRAPHS

