



CONSTRUCTION EQUIPMENT

VOLVO A30G 742385 - DIESEL ENGINE



Sample No: VCP438706

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

Sample Number	VCP438706	VCP428928	VCP416587	VCP388500
Sample Date	09 Apr 2024	02 Oct 2023	20 Jun 2023	17 Oct 2022
Machine Hours	5731	5255	4737	4210
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	MARGINAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	11.9	12.0	12.2	▲ 12.1
Base Number (BN)	mg KOH/g	■ 9.4	■ 9.5	■ 9.7	■ 10.9
Oxidation (PA)	%	78	82	83	84

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.1	■ 0.2	■ 0.3
Nitration (PA)	%	63	58	67	66
Sulfation (PA)	%	58	61	62	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	▲ 2.5
Silicon	ppm	■ 4	■ 4	■ 5	■ 7
Sodium	ppm	■ 3	■ 2	■ 0	■ 2
Potassium	ppm	■ 0	■ 0	■ <1	■ 0



WEAR METALS

Iron	ppm	■ 4	■ 2	■ 8	■ 7
Copper	ppm	■ <1	■ <1	■ <1	■ 1
Lead	ppm	■ 0	■ 0	■ <1	■ <1
Tin	ppm	■ <1	■ 0	■ <1	■ <1
Aluminum	ppm	■ <1	■ <1	■ <1	■ 1
Chromium	ppm	■ 0	■ 0	■ 0	■ <1
Molybdenum	ppm	■ 37	■ 38	■ 44	■ 40
Nickel	ppm	■ 0	■ 0	■ <1	■ 0
Titanium	ppm	<1	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	■ 1478	■ 1646	■ 1683	■ 1650
Magnesium	ppm	■ 444	■ 514	■ 494	■ 493
Zinc	ppm	■ 894	■ 1125	■ 1071	■ 1020
Phosphorus	ppm	■ 824	■ 938	■ 931	■ 929
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 40	■ 39	■ 54	■ 47

Depot: SAIBIR

Unique No: 10990954

Signed: Sean Felton

Report Date: 24 Apr 2024



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GRAPHS

