



CONSTRUCTION EQUIPMENT

G08826 VOLVO A40D 70043 - DIESEL ENGINE



Sample No: VCP453762

Oil Type: {unknown}

Job No: G08826



SAMPLE INFORMATION

Sample Number	VCP453762	VCP232717	VCP232117	VCP214240
Sample Date	22 May 2024	17 Jul 2019	29 Jan 2019	13 Jul 2018
Machine Hours	15722	0	11200	10783
Oil Hours	0	0	400	350
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL

BLENHIM CONSTRUCTION

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OIL CONDITION

Visc @ 100°C	cSt	11.1	9.3	12.06	12.18
Base Number (BN)	mg KOH/g	7.2	---	---	---
Oxidation (PA)	%	38	75	74	72

Diagnosis

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. Fuel content negligible. 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 %	%	0.7	0.8	0.8	0.4
Nitration (PA)	%	59	63	63	58
Sulfation (PA)	%	48	60	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	2.0	0.6	<1.0	<1.0
Silicon	ppm	10	7	8	6
Sodium	ppm	3	25	17	7
Potassium	ppm	3	35	0	<1



WEAR METALS

Iron	ppm	19	14	16	9
Copper	ppm	2	1	2	<1
Lead	ppm	2	4	2	<1
Tin	ppm	1	0	0	0
Aluminum	ppm	4	3	3	2
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	15	44	43	50
Nickel	ppm	1	<1	<1	<1
Titanium	ppm	5	<1	2	<1
Silver	ppm	1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	2654	1724	1732	1616
Magnesium	ppm	193	550	549	504
Zinc	ppm	1284	864	873	856
Phosphorus	ppm	1075	738	756	725
Barium	ppm	0	0	0	0
Boron	ppm	31	30	33	45

Depot: BLECAM
Unique No: 11050417
Signed: Don Baldrige
Report Date: 31 May 2024



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GRAPHS

