



CONSTRUCTION EQUIPMENT

A12586 VOLVO A30D 74082 - DIESEL ENGINE



Sample No: VCP446403
Oil Type: MOBIL 15W40
Job No: A12586



SAMPLE INFORMATION

Sample Number	VCP446403	VCP431245	VCP408931	VCP399918
Sample Date	06 May 2024	15 Nov 2023	27 Jun 2023	01 Mar 2023
Machine Hours	12470	12240	11975	11720
Oil Hours	250	250	250	250
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

DYER QUARRY
P.O. BOX 188, 1275 ROCK HOLLOW ROAD
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OIL CONDITION

Visc @ 100°C	cSt	12.1	12.2	12.3	12.2
Base Number (BN)	mg KOH/g	7.0	7.5	8.1	10.3
Oxidation (PA)	%	39	43	48	75



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.7	0.8	0.7	0.4
Nitration (PA)	%	58	57	63	54
Sulfation (PA)	%	47	50	51	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.0
Silicon	ppm	5	3	3	5
Sodium	ppm	0	1	2	2
Potassium	ppm	3	<1	0	0

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



WEAR METALS

Iron	ppm	11	6	8	6
Copper	ppm	1	<1	<1	<1
Lead	ppm	1	<1	0	<1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	2	1	<1	<1
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	13	25	20	45
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	2	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	0	1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	2049	1722	2079	1689
Magnesium	ppm	168	351	227	435
Zinc	ppm	1067	1062	1065	1098
Phosphorus	ppm	952	899	903	900
Barium	ppm	0	0	0	0
Boron	ppm	8	11	13	57

Depot: DYEBIR
Unique No: 11032248
Signed: Jonathan Hester
Report Date: 20 May 2024



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VOLVO GRAPHS

