



CONSTRUCTION EQUIPMENT

FREDRICK DEER VOLVO A30G 752046 - DIESEL ENGINE



Sample No: VCP430170
Oil Type: MOBIL 15W40
Job No: FREDRICK DEER



SAMPLE INFORMATION

Sample Number	VCP430170	VCP347210	VCP320023	VCP305519
Sample Date	13 Nov 2023	11 Dec 2021	09 Aug 2021	20 Feb 2021
Machine Hours	4620	2552	1859	1083
Oil Hours	500	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	MARGINAL	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.9	12.7	▲ 12.3
Base Number (BN)	mg KOH/g	5.4	7.2	---	---
Oxidation (PA)	%	64	71	84	80



CONTAMINATION

Soot %	%	0.7	0.3	0.4	0.3
Nitration (PA)	%	88	51	78	73
Sulfation (PA)	%	61	53	65	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.2
Silicon	ppm	4	5	5	6
Sodium	ppm	13	3	3	0
Potassium	ppm	<1	0	1	0



WEAR METALS

Iron	ppm	14	12	16	12
Copper	ppm	3	16	▲ 56	▲ 160
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	1	2	1
Aluminum	ppm	8	2	0	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	82	41	48	54
Nickel	ppm	1	2	3	2
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2128	1778	1706	1686
Magnesium	ppm	39	513	537	543
Zinc	ppm	1170	1094	1109	1147
Phosphorus	ppm	984	932	910	956
Barium	ppm	0	0	0	0
Boron	ppm	16	18	20	0

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: VOLVO0093
Unique No: 10740616
Signed: Wes Davis
Report Date: 15 Nov 2023



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GRAPHS

