



CONSTRUCTION EQUIPMENT

A11512 VOLVO A35D 72130 - DIESEL ENGINE



Sample No: VCP430956
Oil Type: MOBIL 15W40
Job No: A11512



SAMPLE INFORMATION

Sample Number	VCP430956	VCP426953	VCP408933	VCP398890
Sample Date	21 Nov 2023	01 Aug 2023	27 Jun 2023	28 Apr 2023
Machine Hours	12630	12325	12050	11781
Oil Hours	250	250	250	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

DYER QUARRY
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OIL CONDITION

Visc @ 100°C	cSt	11.9	12.5	12.8	11.9
Base Number (BN)	mg KOH/g	7.4	8.1	10.2	7.3
Oxidation (PA)	%	42	44	79	57

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.6	0.6	0.6	0.5
Nitration (PA)	%	57	60	62	60
Sulfation (PA)	%	48	47	64	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	1.0	<1.0	<1.0	1.3
Silicon	ppm	7	6	9	11
Sodium	ppm	2	3	3	2
Potassium	ppm	<1	0	0	2

Diagnosis
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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.

WEAR METALS

Iron	ppm	11	13	14	16
Copper	ppm	3	2	<1	1
Lead	ppm	1	<1	0	2
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	2	4	<1	2
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	22	32	44	73
Nickel	ppm	0	0	0	1
Titanium	ppm	2	<1	<1	2
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	1690	1910	1679	1406
Magnesium	ppm	306	408	487	315
Zinc	ppm	1019	1124	1092	1132
Phosphorus	ppm	872	980	920	941
Barium	ppm	0	0	0	0
Boron	ppm	15	20	81	264

Depot: DYEBIR
Unique No: 10764787
Signed: Wes Davis
Report Date: 01 Dec 2023



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VOLVO GRAPHS

