



CONSTRUCTION EQUIPMENT

A10965 VOLVO A35D 72130 - DIESEL ENGINE



Sample No: VCP426953
Oil Type: MOBIL 15W40
Job No: A10965



SAMPLE INFORMATION

Sample Number	VCP426953	VCP408933	VCP398890	VCP378601
Sample Date	01 Aug 2023	27 Jun 2023	28 Apr 2023	19 Aug 2022
Machine Hours	12325	12050	11781	11170
Oil Hours	250	250	0	250
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

DYER QUARRY
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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.8	11.9	12.7
Base Number (BN)	mg KOH/g	8.1	10.2	7.3	8.2
Oxidation (PA)	%	44	79	57	60

CONTAMINATION

Soot %	%	0.6	0.6	0.5	0.7
Nitration (PA)	%	60	62	60	78
Sulfation (PA)	%	47	64	56	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	1.3	<1.0
Silicon	ppm	6	9	11	8
Sodium	ppm	3	3	2	0
Potassium	ppm	0	0	2	1

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.

WEAR METALS

Iron	ppm	13	14	16	17
Copper	ppm	2	<1	1	2
Lead	ppm	<1	0	2	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	4	<1	2	4
Chromium	ppm	<1	<1	1	1
Molybdenum	ppm	32	44	73	81
Nickel	ppm	0	0	1	0
Titanium	ppm	<1	<1	2	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	1910	1679	1406	2038
Magnesium	ppm	408	487	315	95
Zinc	ppm	1124	1092	1132	1178
Phosphorus	ppm	980	920	941	1024
Barium	ppm	0	0	0	0
Boron	ppm	20	81	264	46

Depot: DYEBIR
Unique No: 10648356
Signed: Wes Davis
Report Date: 18 Sep 2023



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GRAPHS

