



CONSTRUCTION EQUIPMENT

A12584 VOLVO A35D 72130 - DIESEL ENGINE



Sample No: VCP439205
Oil Type: MOBIL 15W40
Job No: A12584



SAMPLE INFORMATION

Sample Number	VCP439205	VCP430956	VCP426953	VCP408933
Sample Date	06 May 2024	21 Nov 2023	01 Aug 2023	27 Jun 2023
Machine Hours	12855	12630	12325	12050
Oil Hours	250	250	250	250
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

DYER QUARRY
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OIL CONDITION

Visc @ 100°C	cSt	12.2	11.9	12.5	12.8
Base Number (BN)	mg KOH/g	7.2	7.4	8.1	10.2
Oxidation (PA)	%	39	42	44	79

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.6	0.6	0.6
Nitration (PA)	%	54	57	60	62
Sulfation (PA)	%	45	48	47	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.0	<1.0	<1.0
Silicon	ppm	7	7	6	9
Sodium	ppm	<1	2	3	3
Potassium	ppm	3	<1	0	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.

WEAR METALS

Iron	ppm	11	11	13	14
Copper	ppm	2	3	2	<1
Lead	ppm	1	1	<1	0
Tin	ppm	1	<1	<1	0
Aluminum	ppm	2	2	4	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	12	22	32	44
Nickel	ppm	<1	0	0	0
Titanium	ppm	2	2	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	2006	1690	1910	1679
Magnesium	ppm	155	306	408	487
Zinc	ppm	1027	1019	1124	1092
Phosphorus	ppm	895	872	980	920
Barium	ppm	0	0	0	0
Boron	ppm	9	15	20	81

Depot: DYEBIR
Unique No: 11032252
Signed: Jonathan Hester
Report Date: 16 May 2024



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VOLVO GRAPHS

