



CONSTRUCTION EQUIPMENT

A12633 VOLVO A40G 352005 - DIESEL ENGINE



Sample No: VCP438182
Oil Type: MOBIL 15W40
Job No: A12633



SAMPLE INFORMATION

Sample Number	VCP438182	VCP439455	VCP413720	VCP422505
Sample Date	06 May 2024	18 Dec 2023	29 Aug 2023	05 Jun 2023
Machine Hours	3670	3449	3205	3010
Oil Hours	250	0	250	250
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

DYER QUARRY
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OIL CONDITION

Visc @ 100°C	cSt	12.1	12.3	13.0	12.6
Base Number (BN)	mg KOH/g	9.7	7.6	7.8	10.8
Oxidation (PA)	%	68	39	39	81

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	52	50	48	53
Sulfation (PA)	%	55	43	43	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.6	<1.0	<1.0
Silicon	ppm	4	3	4	3
Sodium	ppm	<1	0	2	2
Potassium	ppm	2	0	<1	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	4	2	4	6
Copper	ppm	2	0	<1	1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	1	3	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	34	21	15	39
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1687	1876	2191	1659
Magnesium	ppm	410	293	154	466
Zinc	ppm	1083	1122	1123	1001
Phosphorus	ppm	950	955	970	885
Barium	ppm	0	0	0	0
Boron	ppm	47	13	15	66

Depot: DYE BIR
Unique No: 11032250
Signed: Wes Davis
Report Date: 16 May 2024



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VOLVO GRAPHS

