



CONSTRUCTION EQUIPMENT

VOLVO A40G 353407 - DIESEL ENGINE



Sample No: VCP435450
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP435450	VCP435157	VCP416819	VCP341890
Sample Date	29 Apr 2024	02 Apr 2024	25 Feb 2024	14 Dec 2023
Machine Hours	1863	1644	1268	997
Oil Hours	219	376	0	241
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.7	12.8	12.7
Base Number (BN)	mg KOH/g	9.9	8.7	7.6	6.6
Oxidation (PA)	%	75	71	63	59



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	49	64	64	68
Sulfation (PA)	%	59	56	52	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	7	5
Sodium	ppm	2	2	3	<1
Potassium	ppm	0	2	2	2



WEAR METALS

Iron	ppm	3	9	8	9
Copper	ppm	2	4	8	26
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	3	3	3
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	50	75	95	119
Nickel	ppm	0	1	2	3
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1738	1467	1189	1232
Magnesium	ppm	538	536	531	626
Zinc	ppm	928	865	785	841
Phosphorus	ppm	797	755	624	762
Barium	ppm	0	0	34	0
Boron	ppm	74	81	91	119

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: SCHGRE
Unique No: 11018428
Signed: Wes Davis
Report Date: 09 May 2024



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VOLVO GRAPHS

