



CONSTRUCTION EQUIPMENT

2928 VOLVO A40G 353407 - DIESEL ENGINE



Sample No: VCP341890
Oil Type: MOBIL 15W40
Job No: 2928



SAMPLE INFORMATION

Sample Number	VCP341890	VCP312514	VCP312575	---
Sample Date	14 Dec 2023	06 Nov 2023	03 Oct 2023	---
Machine Hours	997	756	504	---
Oil Hours	241	252	504	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.6	11.1	---
Base Number (BN)	mg KOH/g	6.6	6.8	5.7	---
Oxidation (PA)	%	59	61	56	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.2	---
Nitration (PA)	%	68	70	78	---
Sulfation (PA)	%	50	52	51	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.5	---
Silicon	ppm	5	9	29	---
Sodium	ppm	<1	2	4	---
Potassium	ppm	2	<1	5	---

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 acceptable for the time in service.

WEAR METALS

Iron	ppm	9	5	22	---
Copper	ppm	26	113	425	---
Lead	ppm	0	<1	<1	---
Tin	ppm	0	<1	3	---
Aluminum	ppm	3	2	4	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	119	115	87	---
Nickel	ppm	3	<1	2	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	3	---
Vanadium	ppm	0	<1	0	---

ADDITIVES

Calcium	ppm	1232	1421	2122	---
Magnesium	ppm	626	609	48	---
Zinc	ppm	841	957	1189	---
Phosphorus	ppm	762	747	1030	---
Barium	ppm	0	0	0	---
Boron	ppm	119	112	43	---

Depot: SCHGRE
Unique No: 10806381
Signed: Don Baldrige
Report Date: 28 Dec 2023



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GRAPHS

