



CONSTRUCTION EQUIPMENT

R-2199 VOLVO A40G 352199 - DIESEL ENGINE



Sample No: VCP342914
Oil Type: MOBIL 15W40
Job No: R-2199



SAMPLE INFORMATION

Sample Number	VCP342914	VCP343536	---	---
Sample Date	24 Mar 2022	10 Feb 2022	---	---
Machine Hours	2574	2296	---	---
Oil Hours	278	384	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.5	---	---
Base Number (BN)	mg KOH/g	11.6	10.8	---	---
Oxidation (PA)	%	84	86	---	---

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.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.2	---	---
Nitration (PA)	%	53	68	---	---
Sulfation (PA)	%	65	69	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	4	8	---	---
Sodium	ppm	2	3	---	---
Potassium	ppm	0	3	---	---



WEAR METALS

Iron	ppm	6	30	---	---
Copper	ppm	5	46	---	---
Lead	ppm	<1	2	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	1	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	37	39	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1583	1835	---	---
Magnesium	ppm	486	564	---	---
Zinc	ppm	820	1200	---	---
Phosphorus	ppm	684	1026	---	---
Barium	ppm	0	0	---	---
Boron	ppm	62	47	---	---

Depot: VOLV00182
Unique No: 9929115
Signed: Wes Davis
Report Date: 13 Apr 2022



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GRAPHS

