



CONSTRUCTION EQUIPMENT

A11961 VOLVO A35G 352094 - DIESEL ENGINE



Sample No: VCP439494
Oil Type: MOBIL 15W40
Job No: A11961



SAMPLE INFORMATION

Sample Number	VCP439494	VCP399141	VCP364145	---
Sample Date	22 Jan 2024	24 Jan 2023	23 Aug 2022	---
Machine Hours	2380	1950	1220	---
Oil Hours	250	250	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	---

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.2	12.1	---
Base Number (BN)	mg KOH/g	9.6	6.2	10.2	---
Oxidation (PA)	%	65	63	84	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.2	0.2	---
Nitration (PA)	%	46	83	78	---
Sulfation (PA)	%	56	57	64	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.3	---
Silicon	ppm	6	5	5	---
Sodium	ppm	<1	1	<1	---
Potassium	ppm	0	1	1	---

WEAR METALS

Iron	ppm	2	18	15	---
Copper	ppm	26	135	4	---
Lead	ppm	0	4	<1	---
Tin	ppm	0	2	1	---
Aluminum	ppm	<1	2	3	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	32	26	46	---
Nickel	ppm	0	2	0	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1676	2053	1585	---
Magnesium	ppm	445	282	464	---
Zinc	ppm	1091	1142	1068	---
Phosphorus	ppm	944	869	900	---
Barium	ppm	0	0	0	---
Boron	ppm	52	9	41	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. All other 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.

Depot: JAAPHI
Unique No: 10873240
Signed: Don Baldrige
Report Date: 13 Feb 2024



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GRAPHS

