



CONSTRUCTION EQUIPMENT

SWA401794-10 VOLVO L70F 62546 - DIESEL ENGINE



Sample No: VCP436044
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWA401794-10



SAMPLE INFORMATION

Sample Number	VCP436044	VCP348144	VCP295771	---
Sample Date	01 Nov 2023	12 Aug 2022	22 Jan 2021	---
Machine Hours	6841	6287	5760	---
Oil Hours	0	0	500	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	SEVERE	NORMAL	NORMAL	---

ALTA EQUIPMENT

5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
 Contact: JIM STRIGLE
 JIM.STRIGLE@ALTG.COM
 T: (315)437-2611
 F: (315)434-9471

OIL CONDITION

Visc @ 100°C	cSt	13.6	12.3	13.2	---
Base Number (BN)	mg KOH/g	11.3	8.0	---	---
Oxidation (PA)	%	73	58	85	---

CONTAMINATION

Soot %	%	0.4	0.3	0.5	---
Nitration (PA)	%	94	82	67	---
Sulfation (PA)	%	60	56	65	---
Glycol	%	0.10	NEG	NEG	---
Fuel	%	<1.0	0.9	<1.0	---
Silicon	ppm	12	6	4	---
Sodium	ppm	453	3	1	---
Potassium	ppm	334	0	<1	---

WEAR METALS

Iron	ppm	15	12	11	---
Copper	ppm	3	2	2	---
Lead	ppm	16	<1	<1	---
Tin	ppm	<1	1	<1	---
Aluminum	ppm	2	1	0	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	62	48	42	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	23	<1	<1	---
Silver	ppm	0	2	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	1971	1444	1725	---
Magnesium	ppm	466	509	506	---
Zinc	ppm	1349	994	1063	---
Phosphorus	ppm	1041	811	970	---
Barium	ppm	0	0	0	---
Boron	ppm	26	69	50	---

Diagnosis

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

All component wear rates are normal. Test for glycol is positive. There is a high concentration of glycol present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0142
Unique No: 10727221
Signed: Wes Davis
Report Date: 07 Nov 2023



CONSTRUCTION EQUIPMENT



GRAPHS

