



CONSTRUCTION EQUIPMENT

VOLVO L70H 623349 - DIESEL ENGINE



Sample No: VCP438789
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP438789	VCP334570	---	---
Sample Date	16 Mar 2024	04 Aug 2021	---	---
Machine Hours	4835	1583	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	ABNORMAL	---	---

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	14.7	14.0	---	---
Base Number (BN)	mg KOH/g	4.9	---	---	---
Oxidation (PA)	%	98	75	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	2.4	0.6	---	---
Nitration (PA)	%	122	79	---	---
Sulfation (PA)	%	86	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	▲ 23	12	---	---
Sodium	ppm	6	4	---	---
Potassium	ppm	4	4	---	---



WEAR METALS

Iron	ppm	131	50	---	---
Copper	ppm	13	12	---	---
Lead	ppm	5	<1	---	---
Tin	ppm	5	2	---	---
Aluminum	ppm	▲ 69	43	---	---
Chromium	ppm	9	6	---	---
Molybdenum	ppm	64	26	---	---
Nickel	ppm	2	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	3	2	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	2920	1749	---	---
Magnesium	ppm	699	486	---	---
Zinc	ppm	1927	1029	---	---
Phosphorus	ppm	1440	873	---	---
Barium	ppm	0	0	---	---
Boron	ppm	11	62	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The aluminum level is severe. Piston wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VOLVO0090
Unique No: 10936254
Signed: Jonathan Hester
Report Date: 21 Mar 2024



CONSTRUCTION EQUIPMENT



GRAPHS

