



CONSTRUCTION EQUIPMENT

VOLVO L70H 624205 - DIESEL ENGINE



Sample No: VC125341

Oil Type: DIESEL ENGINE OIL SAE 15W40

Job No:



SAMPLE INFORMATION

Sample Number	VC125341	VC125645	VC127159	---
Sample Date	07 Dec 2023	05 May 2022	03 May 2021	---
Machine Hours	2995	1500	549	---
Oil Hours	500	500	546	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

BEST MULCH

P.O. BOX 99
 CONCORDVILLE, PA
 US 19331
 Contact: MIKE MAKOWSKI
 mike@bestmulch.com
 T: (610)459-2528
 F: (610)558-4900



OIL CONDITION

Visc @ 100°C	cSt	14.3	14.1	12.6	---
Base Number (BN)	mg KOH/g	5.4	6.4	---	---
Oxidation (PA)	%	60	59	76	---

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	NEG	---
Soot %	%	0.5	0.4	0.3	---
Nitration (PA)	%	80	82	67	---
Sulfation (PA)	%	57	58	61	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	6	16	---
Sodium	ppm	2	3	3	---
Potassium	ppm	4	1	1	---



WEAR METALS

Iron	ppm	14	19	38	---
Copper	ppm	2	3	9	---
Lead	ppm	2	1	2	---
Tin	ppm	<1	2	3	---
Aluminum	ppm	14	20	53	---
Chromium	ppm	1	2	7	---
Molybdenum	ppm	84	80	45	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	<1	5	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	2083	2106	1594	---
Magnesium	ppm	29	61	529	---
Zinc	ppm	1259	1187	1072	---
Phosphorus	ppm	968	998	956	---
Barium	ppm	0	0	<1	---
Boron	ppm	24	39	48	---

Depot: BESCON
Unique No: 10795066
Signed: Don Baldrige
Report Date: 21 Dec 2023



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GRAPHS

