



CONSTRUCTION EQUIPMENT

SW1021452 MGC VOLVO L110H 631394 - DIESEL ENGINE



Sample No: VCP409764
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1021452 MGC



SAMPLE INFORMATION

Sample Number	VCP409764	VCP353785	VCP303002	VCP226448
Sample Date	14 Jul 2023	02 Aug 2022	10 Jun 2021	17 Jan 2019
Machine Hours	2647	2113	1511	616
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.0	12.9	12.67
Base Number (BN)	mg KOH/g	9.9	11.1	---	---
Oxidation (PA)	%	67	88	86	75

CONTAMINATION

Soot %	%	0.3	0.4	0.3	0.4
Nitration (PA)	%	62	70	59	59
Sulfation (PA)	%	55	67	66	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	10	38
Sodium	ppm	2	<1	0	4
Potassium	ppm	0	<1	<1	0

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.

WEAR METALS

Iron	ppm	15	19	14	38
Copper	ppm	2	3	3	10
Lead	ppm	0	<1	<1	3
Tin	ppm	2	2	1	0
Aluminum	ppm	10	15	12	▲ 96
Chromium	ppm	<1	1	1	6
Molybdenum	ppm	53	46	40	37
Nickel	ppm	<1	0	0	1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	<1	<1	1
Manganese	ppm	<1	<1	<1	3
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	1445	1643	1577	1588
Magnesium	ppm	831	483	458	670
Zinc	ppm	1301	1134	1031	916
Phosphorus	ppm	1060	942	897	781
Barium	ppm	<1	0	0	<1
Boron	ppm	24	49	84	44

Depot: VOLVO6174
Unique No: 10566564
Signed: Wes Davis
Report Date: 24 Jul 2023



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GRAPHS

