



CONSTRUCTION EQUIPMENT

608208 IHFT VOLVO L180G 19890 - DIESEL ENGINE



Sample No: VCP431434
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 608208 IHFT



SAMPLE INFORMATION

Sample Number	VCP431434	VCP426797	VCP365889	VCP328300
Sample Date	30 Nov 2023	05 Apr 2023	12 Sep 2022	24 Sep 2021
Machine Hours	24449	22956	22394	21859
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
 Contact: PAUL CONZ
 paul.conz@altg.com
 T: (313)348-8861
 F: (248)356-2029



OIL CONDITION

Visc @ 100°C	cSt	13.2	14.0	14.0	13.3
Base Number (BN)	mg KOH/g	7.9	9.3	10.5	---
Oxidation (PA)	%	59	55	60	65



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.1	0.6
Nitration (PA)	%	72	58	55	58
Sulfation (PA)	%	53	51	54	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	2	4
Sodium	ppm	0	4	1	3
Potassium	ppm	2	1	1	<1



WEAR METALS

Iron	ppm	7	12	3	8
Copper	ppm	<1	2	<1	<1
Lead	ppm	0	<1	0	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	1	3	0	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	64	93	54	57
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1144	1627	1143	1805
Magnesium	ppm	726	1460	933	314
Zinc	ppm	1125	1944	1268	1065
Phosphorus	ppm	949	1562	1001	901
Barium	ppm	3	0	0	0
Boron	ppm	10	21	4	67

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.

Depot: VOLVO2990
Unique No: 10778859
Signed: Don Baldrige
Report Date: 11 Dec 2023



CONSTRUCTION EQUIPMENT



GRAPHS

