



CONSTRUCTION EQUIPMENT

SWA058525-10 VOLVO L180H 5418 - DIESEL ENGINE



Sample No: VCP365589
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA058525-10



SAMPLE INFORMATION

Sample Number	VCP365589	VCP331128	VCP325232	VCP287159
Sample Date	13 Sep 2022	29 Nov 2021	09 Jun 2021	26 Oct 2020
Machine Hours	3034	2239	997	575
Oil Hours	0	0	500	575
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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	12.7	12.5	12.3	12.6
Base Number (BN)	mg KOH/g	10.5	8.5	---	---
Oxidation (PA)	%	88	81	85	72

CONTAMINATION

Water	%	---	0.111	---	---
Soot %	%	0.2	0.2	0.1	0.1
Nitration (PA)	%	78	83	63	74
Sulfation (PA)	%	66	61	66	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.3	<1.0
Silicon	ppm	5	4	6	6
Sodium	ppm	2	0	1	3
Potassium	ppm	1	<1	1	1

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	8	12	9	8
Copper	ppm	5	6	30	360
Lead	ppm	<1	1	<1	<1
Tin	ppm	1	2	2	1
Aluminum	ppm	2	0	1	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	62	54	40	30
Nickel	ppm	2	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	<1	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1701	1695	1595	1463
Magnesium	ppm	480	561	484	561
Zinc	ppm	1156	1095	1081	939
Phosphorus	ppm	953	993	934	802
Barium	ppm	0	0	0	0
Boron	ppm	53	21	64	44

Depot: VOLVO0142
Unique No: 10139110
Signed: Wes Davis
Report Date: 20 Sep 2022



CONSTRUCTION EQUIPMENT



GRAPHS

