



CONSTRUCTION EQUIPMENT

VOLVO L180H 5035 - DIESEL ENGINE



Sample No: VCP438761
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP438761	VCP446649	VCP442669	VCP422082
Sample Date	18 Apr 2024	07 Mar 2024	22 Jan 2024	05 Dec 2023
Machine Hours	13382	13060	12634	12241
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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	12.4	12.5	12.3	12.4
Base Number (BN)	mg KOH/g	10.0	9.9	9.6	10.1
Oxidation (PA)	%	74	77	79	77



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.1
Nitration (PA)	%	47	51	58	48
Sulfation (PA)	%	59	58	59	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	5	4
Sodium	ppm	2	<1	2	<1
Potassium	ppm	0	2	2	0



WEAR METALS

Iron	ppm	0	4	3	1
Copper	ppm	0	1	2	<1
Lead	ppm	0	<1	1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	<1	2	2	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	41	44	43	42
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1704	1678	1523	1604
Magnesium	ppm	499	533	478	473
Zinc	ppm	1095	1144	1074	1049
Phosphorus	ppm	944	1040	908	885
Barium	ppm	0	0	0	0
Boron	ppm	50	48	36	55

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: VOLVO0090
Unique No: 10992781
Signed: Wes Davis
Report Date: 24 Apr 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

