



CONSTRUCTION EQUIPMENT

VOLVO L90H 624974 - DIESEL ENGINE



Sample No: VCP305862
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP305862	VCP295839	VCP289853	VCP245466
Sample Date	17 Feb 2021	23 Dec 2020	29 Oct 2020	13 Jul 2020
Machine Hours	3381	3041	2720	2115
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	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	13.4	13.4	13.4	13.1
Oxidation (PA)	%	80	78	81	70



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.3	0.4
Nitration (PA)	%	55	53	55	58
Sulfation (PA)	%	64	64	64	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	4	5
Sodium	ppm	2	3	<1	3
Potassium	ppm	0	4	<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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	8	7	6	6
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	3	0	1
Tin	ppm	0	1	<1	0
Aluminum	ppm	7	7	4	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	40	38	30
Nickel	ppm	1	1	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1789	1748	1453	1516
Magnesium	ppm	532	498	426	574
Zinc	ppm	1096	1122	948	934
Phosphorus	ppm	953	936	839	852
Barium	ppm	<1	0	0	0
Boron	ppm	44	47	45	56

Depot: VOLVO0090
Unique No: 9378077
Signed: Wes Davis
Report Date: 23 Feb 2021



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

