



CONSTRUCTION EQUIPMENT

VOLVO L90H 624974 - DIESEL ENGINE



Sample No: VCP289853
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP289853	VCP245466	VCP266151	VCP265182
Sample Date	29 Oct 2020	13 Jul 2020	20 Mar 2020	12 Dec 2019
Machine Hours	2720	2115	1612	1056
Oil Hours	0	0	250	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	13.1	13.6	13.7
Oxidation (PA)	%	81	70	63	61



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.4	0.4	0.3
Nitration (PA)	%	55	58	60	58
Sulfation (PA)	%	64	59	56	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	5	5
Sodium	ppm	<1	3	3	3
Potassium	ppm	<1	0	3	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	6	6	10	7
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	1	0	<1
Tin	ppm	<1	0	7	0
Aluminum	ppm	4	5	3	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	38	30	19	17
Nickel	ppm	<1	<1	1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1453	1516	1525	1559
Magnesium	ppm	426	574	641	672
Zinc	ppm	948	934	872	830
Phosphorus	ppm	839	852	815	685
Barium	ppm	0	0	0	0
Boron	ppm	45	56	63	61

Depot: VOLVO0090
Unique No: 9244494
Signed: Wes Davis
Report Date: 06 Nov 2020



CONSTRUCTION EQUIPMENT



GRAPHS

