



CONSTRUCTION EQUIPMENT

2016 VOLVO L150H 7133 - DIESEL ENGINE



Sample No: VCP439158
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 2016



SAMPLE INFORMATION

Sample Number	VCP439158	VCP441713	VCP424191	VCP409321
Sample Date	05 Apr 2024	15 Nov 2023	13 Sep 2023	06 Mar 2023
Machine Hours	2532	2038	1559	504
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
 8594 FRUITRIDGE ROAD
 SACRAMENTO, CA
 US 95826
 Contact: RAY KRANZUSCH
 ray.kranzusch@vcesvolvo.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.5	12.6	12.5	11.0
Base Number (BN)	mg KOH/g	10.1	9.6	7.5	6.5
Oxidation (PA)	%	83	82	80	62

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	58	55	73	80
Sulfation (PA)	%	62	63	60	54
Glycol	%	NEG	0.0	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.6
Silicon	ppm	6	4	10	25
Sodium	ppm	1	3	2	2
Potassium	ppm	1	<1	0	4



WEAR METALS

Iron	ppm	5	<1	7	10
Copper	ppm	10	46	301	204
Lead	ppm	<1	0	0	<1
Tin	ppm	1	<1	<1	2
Aluminum	ppm	2	<1	0	3
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	40	36	40	80
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	3
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1687	1533	1740	2076
Magnesium	ppm	498	471	493	58
Zinc	ppm	1094	1037	1084	1131
Phosphorus	ppm	909	879	839	952
Barium	ppm	1	0	0	0
Boron	ppm	46	34	31	49

Depot: VOLVO4485
Unique No: 10979835
Signed: Wes Davis
Report Date: 17 Apr 2024



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GRAPHS

