



CONSTRUCTION EQUIPMENT

302924 VOLVO L90G 617783 - DIESEL ENGINE



Sample No: VCP417406
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 302924



SAMPLE INFORMATION

Sample Number	VCP417406	VCP363921	VCP378876	VCP335547
Sample Date	06 Jul 2023	15 Dec 2022	24 May 2022	28 Sep 2021
Machine Hours	11536	11049	10496	9873
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	ABNORMAL	ABNORMAL

COVANTA LAKES
 3830 ROGERS INDUSTRIAL PARK ROAD
 OKAHUMPKA, FL
 US 32762
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 100°C	cSt	12.4	12.4	12.6	13.1
Base Number (BN)	mg KOH/g	9.9	10.8	10.1	---
Oxidation (PA)	%	86	95	92	90

T:
F:

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

Soot %	%	0.4	0.4	0.4	0.4
Nitration (PA)	%	72	80	79	73
Sulfation (PA)	%	62	66	64	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	16	21	26
Sodium	ppm	2	<1	3	3
Potassium	ppm	1	1	0	0

WEAR METALS

Iron	ppm	12	16	19	20
Copper	ppm	1	1	1	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	12	15	14	29
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	40	40	40	43
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1689	1605	1662	1798
Magnesium	ppm	492	477	496	531
Zinc	ppm	1083	1041	1084	1153
Phosphorus	ppm	881	902	916	981
Barium	ppm	0	0	0	0
Boron	ppm	34	27	35	36

Depot: COVOKA
Unique No: 10550584
Signed: Jonathan Hester
Report Date: 12 Jul 2023



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GRAPHS

