



CONSTRUCTION EQUIPMENT

701330 VOLVO L120H 632860 - DIESEL ENGINE



Sample No: VCP446313
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 701330



SAMPLE INFORMATION

Sample Number	VCP446313	VCP437448	VCP432769	VCP370518
Sample Date	09 Apr 2024	15 Jan 2024	06 Sep 2023	06 Jun 2023
Machine Hours	7484	6693	5768	4936
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL

ORANGE COUNTY SOLID WASTE
 5901 YOUNG PINE ROAD
 ORLANDO, FL
 US 32829
 Contact: MICHAEL BEEBE
 michael.beebe@ocfl.net
 T: (407)836-6652
 F: (407)836-6650

OIL CONDITION

Visc @ 100°C	cSt	14.4	14.4	14.4	14.1
Base Number (BN)	mg KOH/g	8.3	8.3	7.5	9.1
Oxidation (PA)	%	72	86	91	79

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.7	0.9	1.2	0.8
Nitration (PA)	%	75	87	92	79
Sulfation (PA)	%	60	65	67	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	19	30	44	21
Sodium	ppm	1	0	4	2
Potassium	ppm	2	2	0	0

WEAR METALS

Iron	ppm	23	39	46	24
Copper	ppm	2	3	3	1
Lead	ppm	2	4	5	0
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	10	15	19	9
Chromium	ppm	1	<1	1	<1
Molybdenum	ppm	63	56	49	50
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1780	1897	2150	1657
Magnesium	ppm	742	621	537	455
Zinc	ppm	1406	1357	1348	1017
Phosphorus	ppm	1187	1060	1119	907
Barium	ppm	0	3	0	0
Boron	ppm	27	26	20	28

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: ORAORL
Unique No: 10978436
Signed: Wes Davis
Report Date: 16 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

