



CONSTRUCTION EQUIPMENT

COVANTA PASCO VOLVO L110H 631015 - DIESEL ENGINE



Sample No: VCP452359
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: COVANTA PASCO



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SAMPLE INFORMATION

Sample Number	VCP452359	VCP441469	VCP252229	VCP208232
Sample Date	16 Feb 2024	19 Dec 2023	12 Jul 2019	24 Jul 2017
Machine Hours	9098	9231	5514	2456
Oil Hours	1	0	5514	0
Oil Changed	Not Chngd	Not Chngd	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.9	13.4	13.2	13.62
Base Number (BN)	mg KOH/g	10.5	9.1	---	---
Oxidation (PA)	%	73	61	84	60



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0.1	0.3	0.1
Nitration (PA)	%	38	43	68	50
Sulfation (PA)	%	60	61	59	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	8	5	5
Sodium	ppm	4	2	5	3
Potassium	ppm	<1	2	3	2



WEAR METALS

Iron	ppm	58	16	9	10
Copper	ppm	7	4	1	2
Lead	ppm	56	6	0	<1
Tin	ppm	<1	7	0	2
Aluminum	ppm	0	11	5	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	2	115	38	40
Nickel	ppm	0	<1	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	2	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	2818	1493	1574	1549
Magnesium	ppm	51	600	476	513
Zinc	ppm	1110	1006	807	819
Phosphorus	ppm	938	883	639	696
Barium	ppm	0	0	0	0
Boron	ppm	11	410	29	27

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The lead level is abnormal. All other metal levels are typical for a new component breaking in. 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: VOLVO0093
Unique No: 10886877
Signed: Don Baldrige
Report Date: 21 Feb 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

