



CONSTRUCTION EQUIPMENT

12046 VOLVO A35D 72314 - DIESEL ENGINE



Sample No: VCP443152
Oil Type: MOBIL 15W40
Job No: 12046



SAMPLE INFORMATION

Sample Number	VCP443152	VCP418601	VCP386463	VCP358838
Sample Date	06 Feb 2024	09 Jun 2023	21 Nov 2022	30 Sep 2022
Machine Hours	11246	10992	10780	10575
Oil Hours	0	0	250	250
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

JAMES J ANDERSON
 6958 TORRESDALE AVENUE
 PHILADELPHIA, PA
 US 19135
 Contact: JOHN HERBUT
 herb@jjaconstruction.com
 T: (215)850-9051
 F: (215)427-0208

OIL CONDITION

Visc @ 100°C	cSt	12.2	12.9	13.0	12.2
Base Number (BN)	mg KOH/g	9.8	8.4	10.0	11.1
Oxidation (PA)	%	71	56	58	78

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.5	0.5	1.3
Nitration (PA)	%	48	52	55	80
Sulfation (PA)	%	58	52	56	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	1.7	<1.0	<1.0	<1.0
Silicon	ppm	4	2	4	6
Sodium	ppm	2	1	<1	<1
Potassium	ppm	0	1	<1	2

WEAR METALS

Iron	ppm	2	5	8	24
Copper	ppm	0	0	<1	2
Lead	ppm	0	0	<1	1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	10	1	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	40	46	42	47
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1549	1497	1470	1736
Magnesium	ppm	536	703	580	480
Zinc	ppm	1110	1237	1104	1103
Phosphorus	ppm	975	994	934	918
Barium	ppm	0	0	0	2
Boron	ppm	56	10	18	40

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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: JAAPHI
Unique No: 10873262
Signed: Wes Davis
Report Date: 14 Feb 2024



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GRAPHS

