



CONSTRUCTION EQUIPMENT

A10901 VOLVO A30D 70020 - DIESEL ENGINE



Sample No: VCP413664
Oil Type: MOBIL 15W40
Job No: A10901



SAMPLE INFORMATION

Sample Number	VCP413664	VCP399155	VCP287931	VCP240678
Sample Date	16 Aug 2023	25 Jan 2023	01 Oct 2020	27 Aug 2019
Machine Hours	11015	10715	10310	10170
Oil Hours	250	250	300	250
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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	12.4	12.4	12.1	12.3
Base Number (BN)	mg KOH/g	8.1	9.7	---	---
Oxidation (PA)	%	42	58	73	73

CONTAMINATION

Soot %	%	0.2	0.2	0.4	0.7
Nitration (PA)	%	47	48	48	49
Sulfation (PA)	%	45	53	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	4
Sodium	ppm	0	3	<1	6
Potassium	ppm	2	2	<1	<1

WEAR METALS

Iron	ppm	11	11	8	10
Copper	ppm	2	1	<1	<1
Lead	ppm	<1	2	<1	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	5	2	0	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	28	32	42	40
Nickel	ppm	2	<1	0	<1
Titanium	ppm	<1	<1	3	<1
Silver	ppm	2	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1817	1928	1521	1534
Magnesium	ppm	355	357	497	479
Zinc	ppm	1084	1154	868	786
Phosphorus	ppm	918	913	744	676
Barium	ppm	0	0	0	0
Boron	ppm	14	42	73	45

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: JAAPHI
Unique No: 10617822
Signed: Sean Felton
Report Date: 25 Aug 2023



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GRAPHS

