



CONSTRUCTION EQUIPMENT

6001 VOLVO A35D 72405 - DIESEL ENGINE



Sample No: VCP383132
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 6001



SAMPLE INFORMATION

Sample Number	VCP383132	VCP401522	VCP384131	VCP355380
Sample Date	25 Jun 2024	16 Sep 2023	07 Jan 2023	19 Sep 2022
Machine Hours	13125	12650	12180	11680
Oil Hours	0	0	500	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

LEONARDS CONTRACTING
 30850 STEPHENSON HWY
 MADISON HEIGHTS, MI
 US 48071
 Contact: LARRY SCHRADER
 larry.schrader@sdevelop.com
 T: (810)499-1953
 F: x:



OIL CONDITION

Visc @ 100°C	cSt	12.3	12.6	13.2	13.0
Base Number (BN)	mg KOH/g	10.4	9.7	10.1	11.2
Oxidation (PA)	%	78	77	80	88

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.8	0.9
Nitration (PA)	%	53	51	60	66
Sulfation (PA)	%	61	60	64	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	5	8	5
Sodium	ppm	4	5	<1	1
Potassium	ppm	2	<1	<1	<1



WEAR METALS

Iron	ppm	13	8	14	11
Copper	ppm	2	1	<1	<1
Lead	ppm	1	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	<1	1	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	40	43	42	41
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1760	1798	1687	1700
Magnesium	ppm	493	547	494	486
Zinc	ppm	1144	1178	1106	1112
Phosphorus	ppm	993	1007	947	918
Barium	ppm	0	0	1	0
Boron	ppm	64	60	46	42

Depot: LEOMAD
Unique No: 1113288
Signed: Sean Felton
Report Date: 09 Jul 2024



CONSTRUCTION EQUIPMENT



GRAPHS

