



CONSTRUCTION EQUIPMENT

566021 IPS TEREX COMMANDER 5D68AU3T1M0016824 - DIESEL ENGINE



Sample No: VCP414117
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 566021 IPS



SAMPLE INFORMATION

Sample Number	VCP414117	VCP382758	VCP388737	VCP347604
Sample Date	05 Jul 2023	16 Mar 2023	07 Sep 2022	20 Dec 2021
Machine Hours	3595	3004	1940	623
Oil Hours	500	500	500	623
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
 Contact: PAUL CONZ
 paul.conz@altg.com
 T: (313)348-8861
 F: (248)356-2029



OIL CONDITION

Visc @ 100°C	cSt	14.3	14.5	13.9	▲ 11.9
Base Number (BN)	mg KOH/g	9.0	8.3	10.8	6.8
Oxidation (PA)	%	74	84	70	74



CONTAMINATION

Soot %	%	0.9	1.4	0.7	0.5
Nitration (PA)	%	81	99	82	91
Sulfation (PA)	%	58	68	61	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.9
Silicon	ppm	2	21	3	14
Sodium	ppm	2	<1	1	4
Potassium	ppm	0	2	<1	5



WEAR METALS

Iron	ppm	13	27	12	32
Copper	ppm	<1	17	<1	10
Lead	ppm	0	0	0	1
Tin	ppm	<1	<1	0	1
Aluminum	ppm	<1	2	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	57	42	55	37
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	5
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	992	1741	1099	1405
Magnesium	ppm	942	494	971	787
Zinc	ppm	1205	1119	1290	883
Phosphorus	ppm	976	887	1023	783
Barium	ppm	0	0	0	0
Boron	ppm	0	24	2	56

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: VOLVO2990
Unique No: 10549129
Signed: Don Baldrige
Report Date: 11 Jul 2023



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GRAPHS

