



CONSTRUCTION EQUIPMENT

SPM540912 IAA FLINT VOLVO L90G 3517 - DIESEL ENGINE



Sample No: VCP403888
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM540912 IAA FLINT



SAMPLE INFORMATION

Sample Number	VCP403888	VCP367822	VCP386557	VCP355960
Sample Date	01 May 2023	26 Jan 2023	10 Oct 2022	23 Mar 2022
Machine Hours	18340	17848	17381	16890
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



ALTA CONSTRUCTION EQUIPMENT LLC
 G-3283 S. DORT HIGHWAY
 BURTON, MI
 US 48529
 Contact: BURTON SERVICE
 BURTON.SERVICE@ALTAEQUIPMENT.COM
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	14.6	14.8	13.4	14.0
Base Number (BN)	mg KOH/g	7.9	9.3	10.8	10.8
Oxidation (PA)	%	55	58	77	64



CONTAMINATION

Soot %	%	0.2	0.3	0.3	0.3
Nitration (PA)	%	53	58	68	61
Sulfation (PA)	%	47	52	61	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	3	5	3
Sodium	ppm	1	<1	2	<1
Potassium	ppm	2	2	<1	<1



WEAR METALS

Iron	ppm	9	11	11	10
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	4	2	4	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	53	58	44	57
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1231	1138	1676	1201
Magnesium	ppm	890	882	517	899
Zinc	ppm	1228	1229	1138	1208
Phosphorus	ppm	1002	1011	962	1023
Barium	ppm	0	0	0	0
Boron	ppm	13	1	38	8

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: VOLVO5023
Unique No: 10454999
Signed: Sean Felton
Report Date: 04 May 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

