



CONSTRUCTION EQUIPMENT

CITY OF TAMPA VOLVO L180H 5423 - DIESEL ENGINE



Sample No: VCP428659
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: CITY OF TAMPA



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SAMPLE INFORMATION

Sample Number	VCP428659	VCP436031	VCP414635	VCP364326
Sample Date	20 Feb 2024	10 Oct 2023	15 Aug 2023	11 Aug 2022
Machine Hours	10225	9167	8689	5393
Oil Hours	0	0	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.9	12.9	12.8	13.2
Base Number (BN)	mg KOH/g	9.8	10.0	---	11.4
Oxidation (PA)	%	76	78	89	88



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.3	0.2
Nitration (PA)	%	56	58	84	60
Sulfation (PA)	%	57	59	63	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	10	22	8
Sodium	ppm	1	0	2	3
Potassium	ppm	0	1	0	0



WEAR METALS

Iron	ppm	3	3	9	4
Copper	ppm	2	<1	4	2
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	1	1	2	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	44	40	46	42
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1777	1624	1773	1795
Magnesium	ppm	581	477	544	537
Zinc	ppm	1189	1042	1141	1200
Phosphorus	ppm	995	843	930	975
Barium	ppm	0	2	0	0
Boron	ppm	43	30	8	47

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: VOLVO0093
Unique No: 10995434
Signed: Wes Davis
Report Date: 25 Apr 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

