



CONSTRUCTION EQUIPMENT

CITY OF TAMPA VOLVO L120H 632838 - DIESEL ENGINE



Sample No: VCP454847
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: CITY OF TAMPA



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SAMPLE INFORMATION

Sample Number	VCP454847	VCP429244	VCP422481	---
Sample Date	07 May 2024	03 Oct 2023	27 Mar 2023	---
Machine Hours	2855	2560	1972	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	13.3	12.9	12.9	---
Base Number (BN)	mg KOH/g	9.6	10.1	10.1	---
Oxidation (PA)	%	80	82	69	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.3	0.3	0.1	---
Nitration (PA)	%	68	63	44	---
Sulfation (PA)	%	61	61	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	12	12	7	---
Sodium	ppm	4	2	3	---
Potassium	ppm	<1	2	2	---



WEAR METALS

Iron	ppm	28	23	11	---
Copper	ppm	4	4	<1	---
Lead	ppm	0	1	<1	---
Tin	ppm	0	1	<1	---
Aluminum	ppm	22	19	9	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	44	42	48	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	<1	---



ADDITIVES

Calcium	ppm	1875	1536	1513	---
Magnesium	ppm	599	500	522	---
Zinc	ppm	1158	1068	1069	---
Phosphorus	ppm	984	912	912	---
Barium	ppm	0	0	2	---
Boron	ppm	21	30	68	---

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: 11029630
Signed: Wes Davis
Report Date: 14 May 2024



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GRAPHS

