



CONSTRUCTION EQUIPMENT

VOLVO L110E 60396 - DIESEL ENGINE



Sample No: VCP425538
Oil Type: PETRO CANADA 10W30
Job No:



SAMPLE INFORMATION

Sample Number	VCP425538	VCP395412	VCP395417	VCP373507
Sample Date	27 Apr 2024	22 Sep 2023	27 May 2023	23 Mar 2023
Machine Hours	6485	5860	5388	5215
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	11.2	12.6	11.4	11.3
Base Number (BN)	mg KOH/g	8.3	8.4	8.2	8.2
Oxidation (PA)	%	63	61	62	63

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 %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	64	59	67	68
Sulfation (PA)	%	52	52	52	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.8
Silicon	ppm	4	2	3	4
Sodium	ppm	<1	<1	<1	2
Potassium	ppm	<1	1	<1	3



WEAR METALS

Iron	ppm	6	4	5	5
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	2	<1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	65	60	53	56
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	1	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1244	1061	1144	1331
Magnesium	ppm	1094	862	901	846
Zinc	ppm	1442	1212	1274	1319
Phosphorus	ppm	1170	991	1021	1020
Barium	ppm	<1	0	0	0
Boron	ppm	10	8	22	42

Depot: WOOSTM
Unique No: 11009962
Signed: Wes Davis
Report Date: 06 May 2024



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GRAPHS

