



# CONSTRUCTION EQUIPMENT

GFL 8-384239 VOLVO L120H 632507 - DIESEL ENGINE



**Sample No:** VCP353269  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** 8-384239



## SAMPLE INFORMATION

Sample Number	<b>VCP353269</b>	VCP429962	VCP392085	VCP392340
Sample Date	<b>14 Nov 2023</b>	08 Sep 2023	20 Apr 2023	16 Mar 2023
Machine Hours	<b>17730</b>	17100	15997	15533
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD  
MISSISSAUGA, ON  
CA L4W 4L4

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.2</b>	12.1	12.4	12.3
Oxidation (PA)	%	<b>82</b>	96	78	84



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.5	0.1	0
Nitration (PA)	%	<b>67</b>	89	59	65
Sulfation (PA)	%	<b>61</b>	68	60	70
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	2.4	<1.0	<1.0
Silicon	ppm	<b>12</b>	14	6	6
Sodium	ppm	<b>4</b>	2	2	2
Potassium	ppm	<b>0</b>	0	0	<1

### 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 condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	<b>11</b>	19	8	8
Copper	ppm	<b>&lt;1</b>	2	<1	<1
Lead	ppm	<b>1</b>	3	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>6</b>	9	4	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>51</b>	58	48	46
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1424</b>	1280	1564	1551
Magnesium	ppm	<b>744</b>	897	702	644
Zinc	ppm	<b>1158</b>	1224	1155	1097
Phosphorus	ppm	<b>988</b>	1097	1053	1020
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>14</b>	7	24	30

**Depot:** SHEMIS  
**Unique No:** 5683463  
**Signed:** Wes Davis  
**Report Date:** 23 Nov 2023



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## GRAPHS

