



CONSTRUCTION EQUIPMENT

GFL 8-397996 VOLVO L120H 632507 - DIESEL ENGINE



Sample No: VCP394202
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 8-397996



SAMPLE INFORMATION

Sample Number	VCP394202	VCP449365	VCP353269	VCP429962
Sample Date	20 Mar 2024	06 Feb 2024	14 Nov 2023	08 Sep 2023
Machine Hours	18985	18525	17730	17100
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD
MISSISSAUGA, ON
CA L4W 4L4

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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.4	12.2	12.1
Oxidation (PA)	%	77	82	82	96



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.2	0.5
Nitration (PA)	%	61	71	67	89
Sulfation (PA)	%	62	63	61	68
Glycol	%	0.0	0.0	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	2.4
Silicon	ppm	4	8	12	14
Sodium	ppm	27	41	4	2
Potassium	ppm	<1	<1	0	0

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	12	16	11	19
Copper	ppm	<1	1	<1	2
Lead	ppm	0	<1	1	3
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	5	9	6	9
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	46	47	51	58
Nickel	ppm	<1	2	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1487	1461	1424	1280
Magnesium	ppm	661	686	744	897
Zinc	ppm	1084	1105	1158	1224
Phosphorus	ppm	907	954	988	1097
Barium	ppm	0	0	0	0
Boron	ppm	19	17	14	7

Depot: SHEMIS
Unique No: 5749054
Signed: Wes Davis
Report Date: 22 Mar 2024

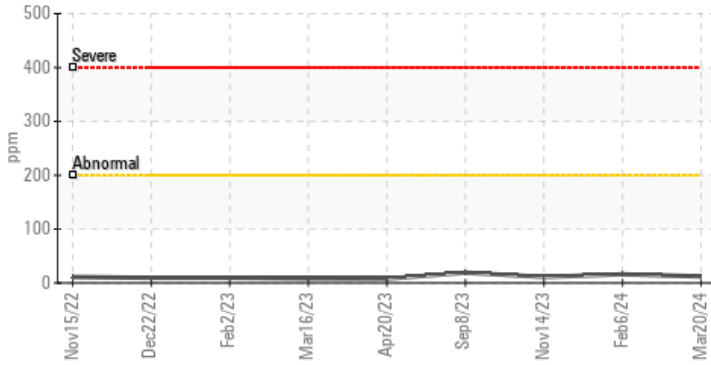


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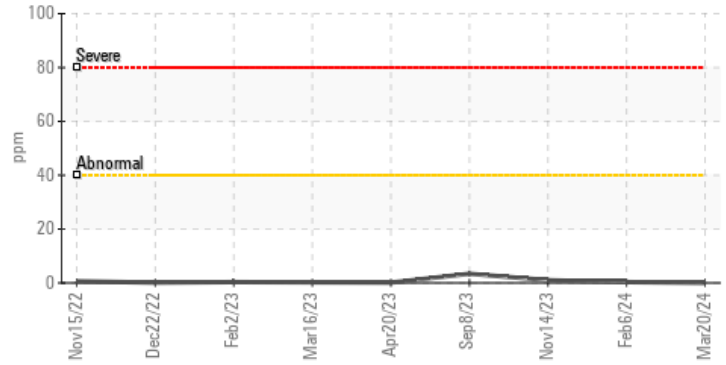


GRAPHS

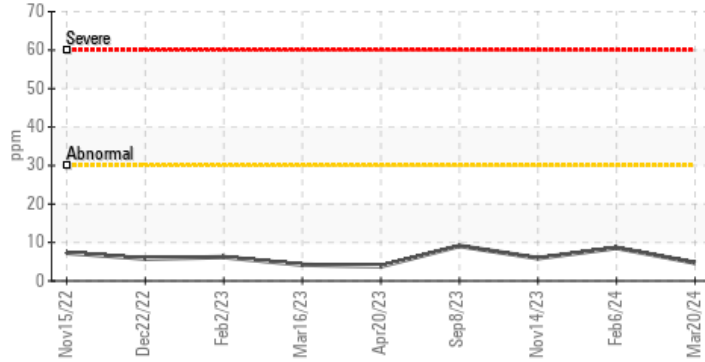
Iron (ppm)



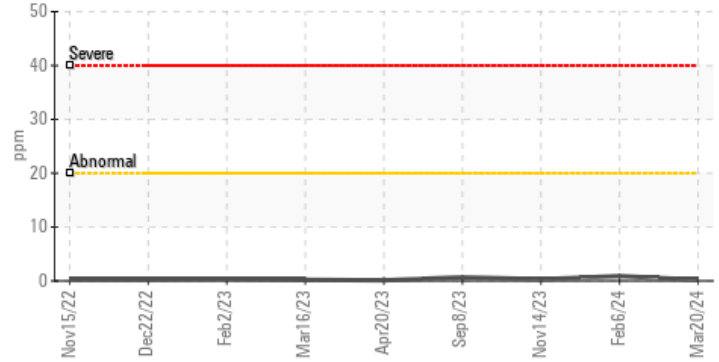
Lead (ppm)



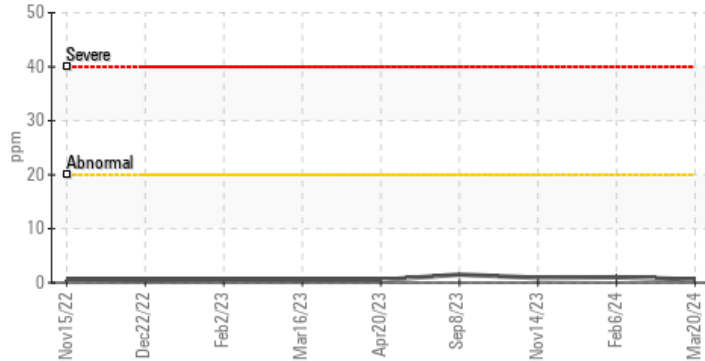
Aluminum (ppm)



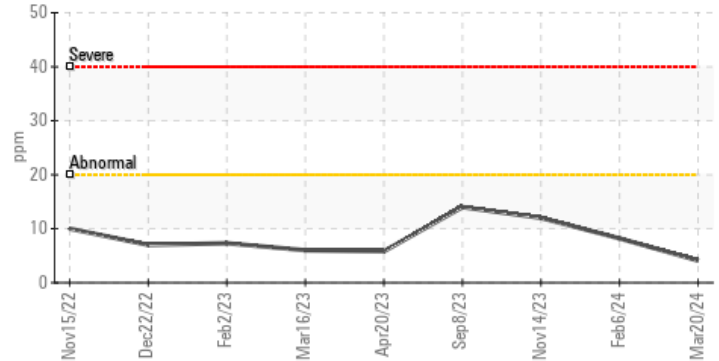
Chromium (ppm)



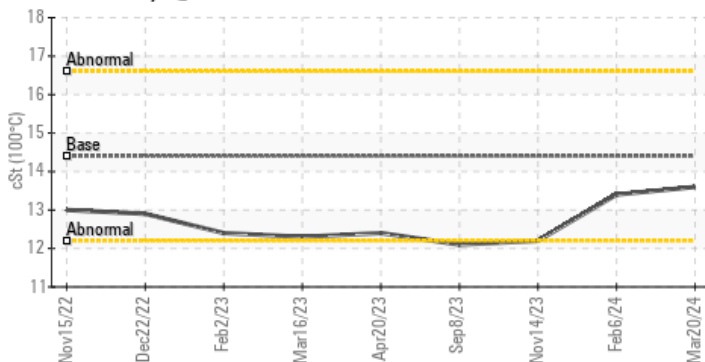
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

