



CONSTRUCTION EQUIPMENT

IMPACT AUTO 8-404180 VOLVO L90H 623895 - DIESEL ENGINE



Sample No: VCP450487
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 8-404180



SAMPLE INFORMATION

Sample Number	VCP450487	VCP449307	VCP450151	VCP391931
Sample Date	24 May 2024	29 Feb 2024	17 Jan 2024	31 May 2023
Machine Hours	13040	12545	12280	11050
Oil Hours	0	0	2000	1000
Oil Changed	Changed	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	12.3	12.7	12.7	12.5
Oxidation (PA)	%	80	80	80	84



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0	0.1	0.1
Nitration (PA)	%	53	48	52	56
Sulfation (PA)	%	63	62	62	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	5	5	4
Sodium	ppm	2	2	2	2
Potassium	ppm	0	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	5	4	6	7
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	1	2	3	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	39	39	39	40
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1685	1723	1698	1825
Magnesium	ppm	495	496	492	520
Zinc	ppm	1015	1033	1046	1091
Phosphorus	ppm	899	914	912	1008
Barium	ppm	0	0	0	0
Boron	ppm	40	51	39	43

Depot: SHEMIS
Unique No: 5787594
Signed: Wes Davis
Report Date: 29 May 2024

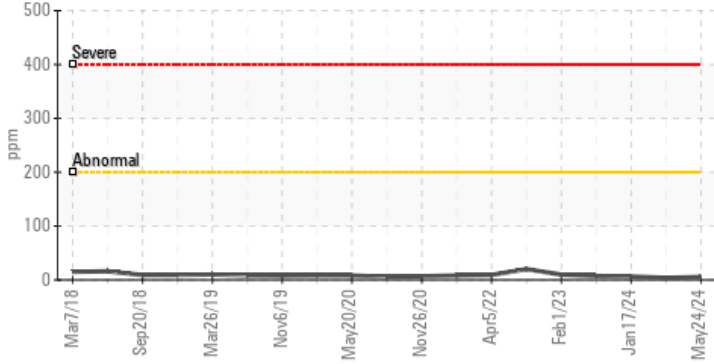


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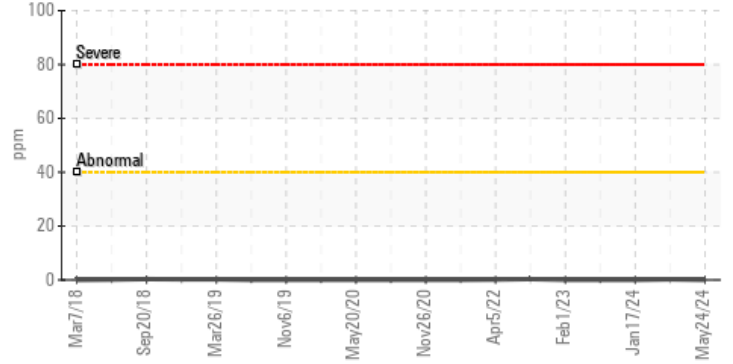


GRAPHS

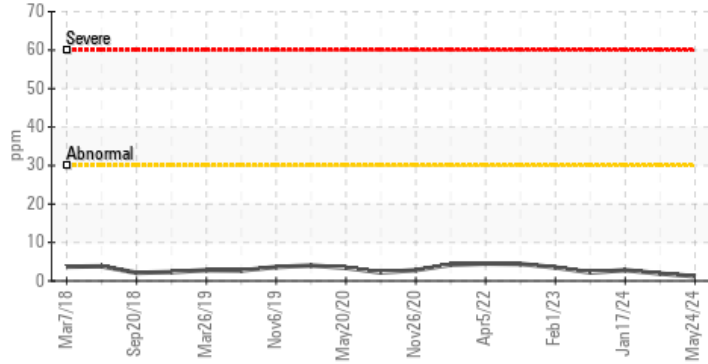
Iron (ppm)



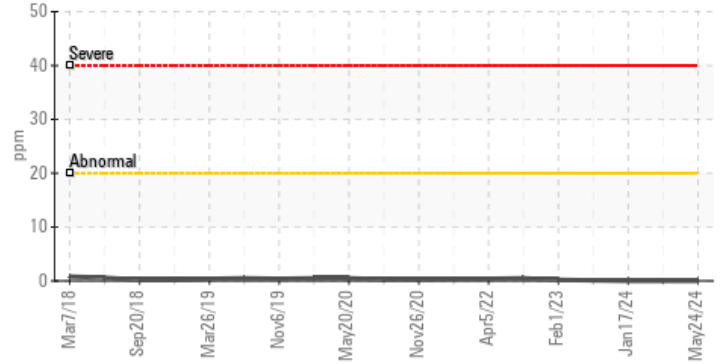
Lead (ppm)



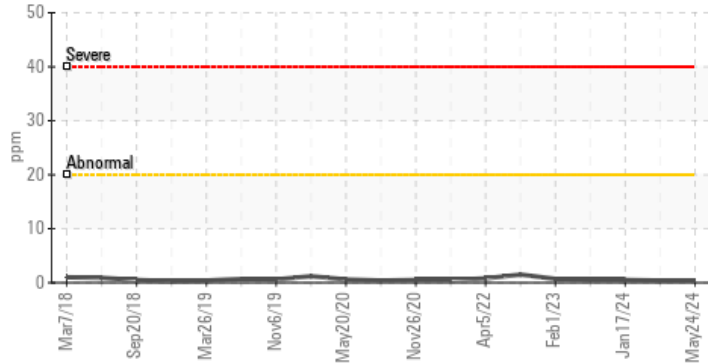
Aluminum (ppm)



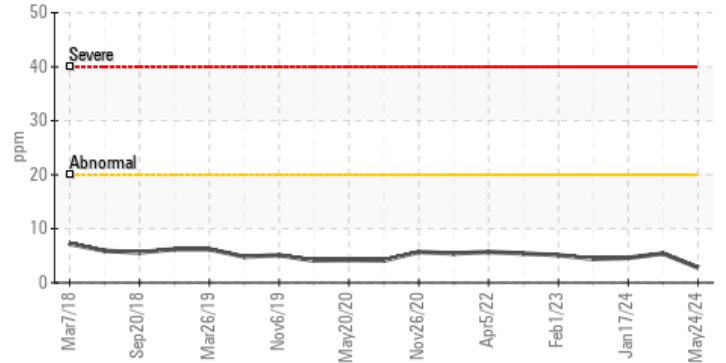
Chromium (ppm)



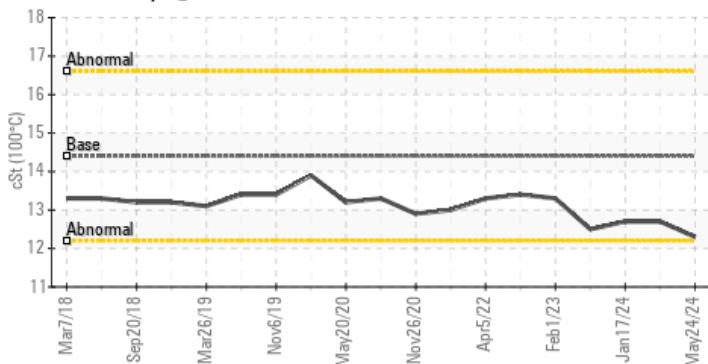
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

