



CONSTRUCTION EQUIPMENT

VOLVO L90H 623836 - FRONT AXLE



Sample No: VCP440227
Oil Type: VOLVO WB 102
Job No:



SAMPLE INFORMATION

Sample Number	VCP440227	VCP395751	VCP357470	VCP324615
Sample Date	18 Jun 2024	02 Feb 2023	29 Mar 2022	18 Jun 2021
Machine Hours	7054	6023	4970	4029
Oil Hours	0	2000	970	4029
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	41.7	54.0	42.0	39.9
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	16	16	16	17
Sodium	ppm	7	10	9	2
Potassium	ppm	2	<1	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	59	59	44	123
Copper	ppm	2	58	0	1
Lead	ppm	<1	1	<1	<1
Tin	ppm	<1	9	<1	0
Aluminum	ppm	3	2	1	0
Chromium	ppm	2	1	1	4
Molybdenum	ppm	5	4	4	7
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	4	2	2	9
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	3995	3662	3737	4113
Magnesium	ppm	37	35	36	9
Zinc	ppm	1621	1486	1357	1449
Phosphorus	ppm	1376	1153	1159	1345
Barium	ppm	1	0	0	0
Boron	ppm	128	130	126	152

Depot: RIPTAM
Unique No: 11096791
Signed: Wes Davis
Report Date: 25 Jun 2024

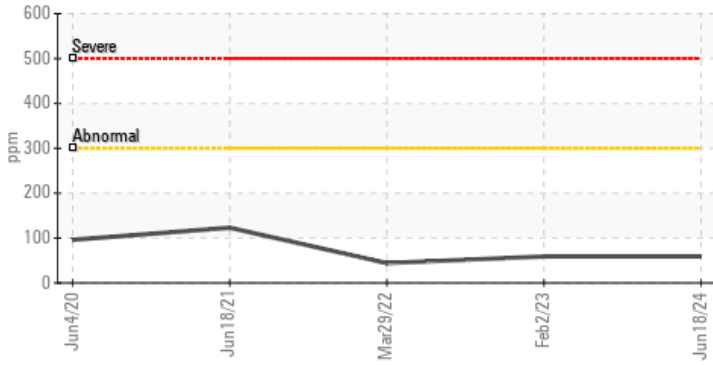


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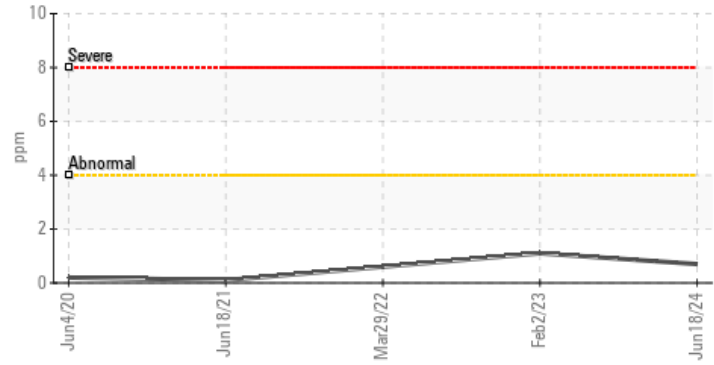


GRAPHS

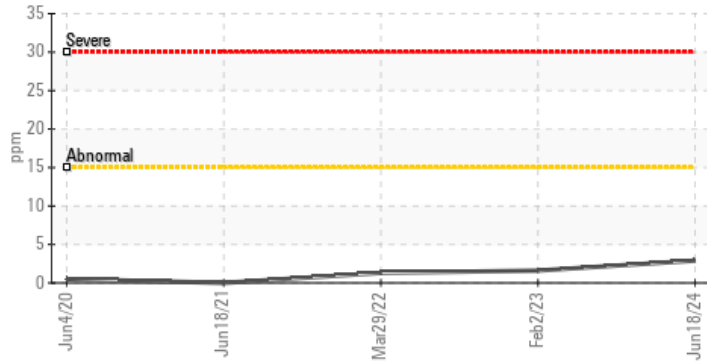
Iron (ppm)



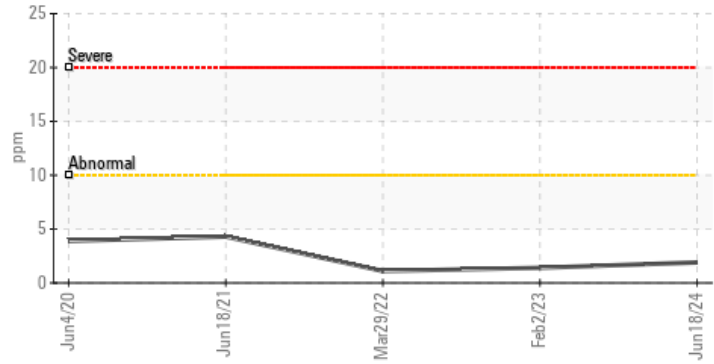
Lead (ppm)



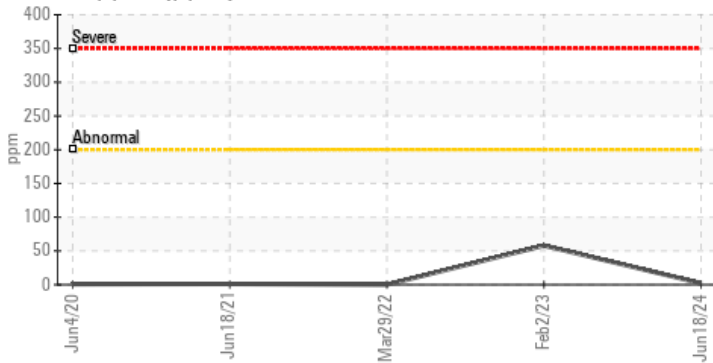
Aluminum (ppm)



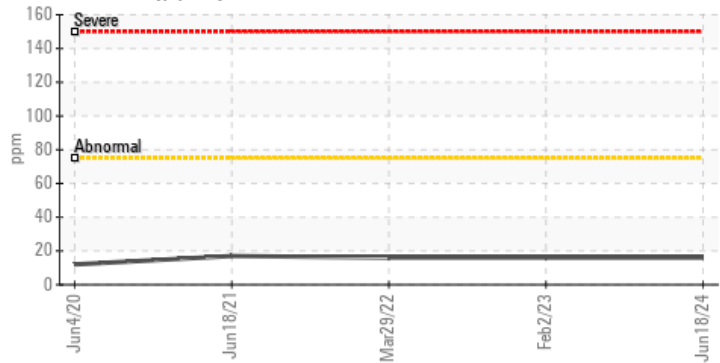
Chromium (ppm)



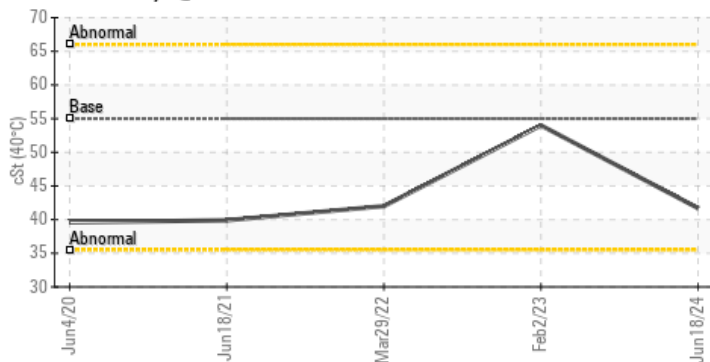
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

