



CONSTRUCTION EQUIPMENT

VOLVO L90H 625046 - TRANSMISSION (AUTO)



Sample No: VCP428797
Oil Type: VOLVO AT 102
Job No:



SAMPLE INFORMATION

Sample Number	VCP428797	VCP385336	VCP345746	VCP311895
Sample Date	08 May 2024	16 Sep 2022	28 Jan 2022	09 Jun 2021
Machine Hours	0	2470	2000	1458
Oil Hours	0	500	2000	1458
Oil Changed	N/A	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	SEVERE	NORMAL	ABNORMAL

RIPA AND ASSOCIATES

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



OIL CONDITION

Visc @ 40°C	cSt	28.8	25.6	27.6	26.1
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	14	8	13	6
Sodium	ppm	2	6	4	5
Potassium	ppm	4	3	0	2

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The nickel level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	30	299	37	232
Copper	ppm	46	12	44	11
Lead	ppm	<1	0	0	0
Tin	ppm	6	<1	5	0
Aluminum	ppm	15	5	20	0
Chromium	ppm	<1	1	<1	1
Molybdenum	ppm	<1	<1	0	<1
Nickel	ppm	7	1	4	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	5	11	3	11
Vanadium	ppm	<1	1	0	0



ADDITIVES

Calcium	ppm	68	86	85	92
Magnesium	ppm	<1	0	0	1
Zinc	ppm	<1	45	5	42
Phosphorus	ppm	192	157	190	175
Barium	ppm	0	0	0	0
Boron	ppm	85	33	69	50

Depot: RIPTAM
Unique No: 11019110
Signed: Sean Felton
Report Date: 10 May 2024

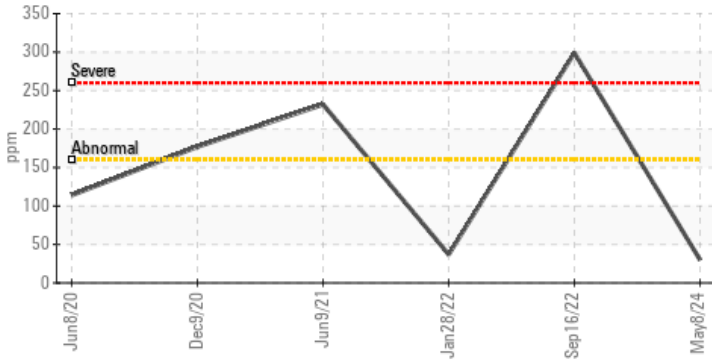


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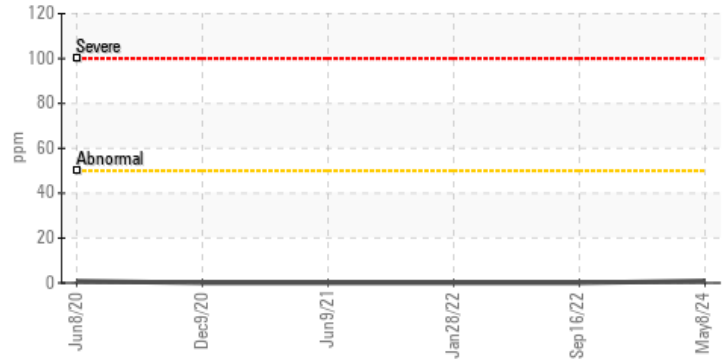


GRAPHS

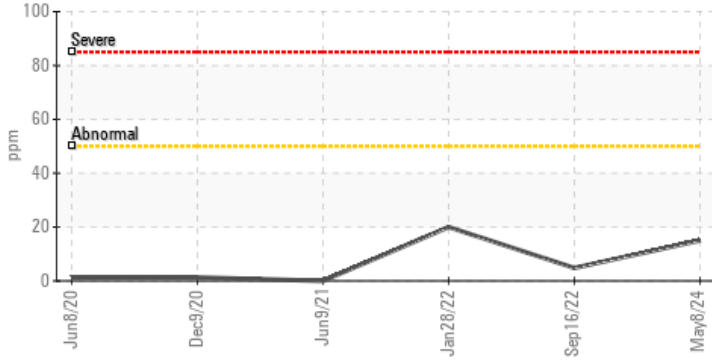
Iron (ppm)



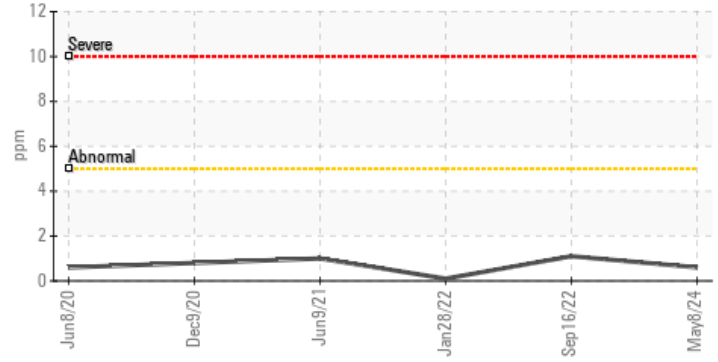
Lead (ppm)



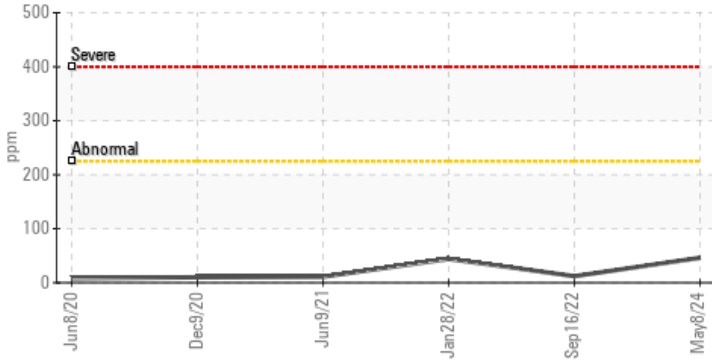
Aluminum (ppm)



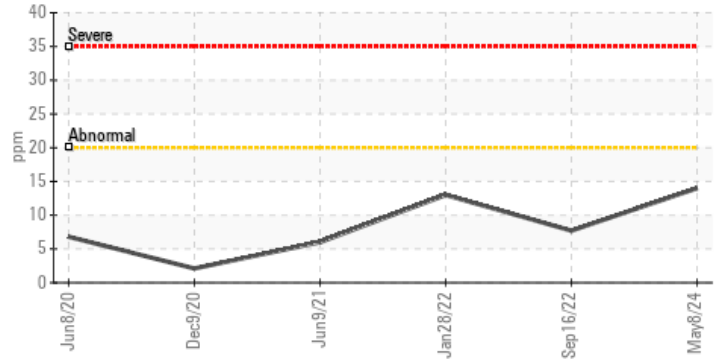
Chromium (ppm)



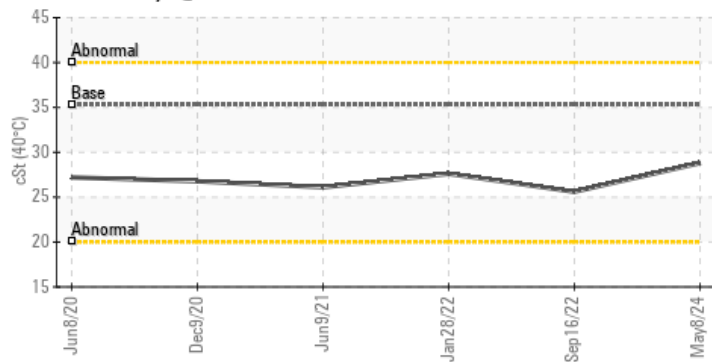
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

