



CONSTRUCTION EQUIPMENT

VOLVO A40F 342498 - TRANSMISSION (AUTO)



Sample No: VCP429401
Oil Type: VOLVO AUTOMATIC TRANSMISSION FLUID AT102
Job No:



SAMPLE INFORMATION

Sample Number	VCP429401	VCP417069	VCP393537	VCP367282
Sample Date	07 Dec 2023	18 Sep 2023	27 Feb 2023	09 Sep 2022
Machine Hours	8915	8432	7463	6976
Oil Hours	0	2000	1000	500
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: ROBERT TURNER
 rturner@ripatampa.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	28.9	28.0	28.4	28.4
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CONTAMINATION

Water	%	0.013	NEG	NEG	NEG
Silicon	ppm	1	5	4	4
Sodium	ppm	2	0	3	3
Potassium	ppm	0	2	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 fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	12	29	20	28
Copper	ppm	11	29	20	14
Lead	ppm	0	<1	0	<1
Tin	ppm	1	4	2	2
Aluminum	ppm	4	10	8	6
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	4	2	2
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	75	76	74	72
Magnesium	ppm	2	2	1	1
Zinc	ppm	11	0	0	3
Phosphorus	ppm	207	190	189	179
Barium	ppm	<1	0	0	0
Boron	ppm	100	96	84	86

Depot: RIPTAM
Unique No: 10871465
Signed: Don Baldrige
Report Date: 11 Feb 2024

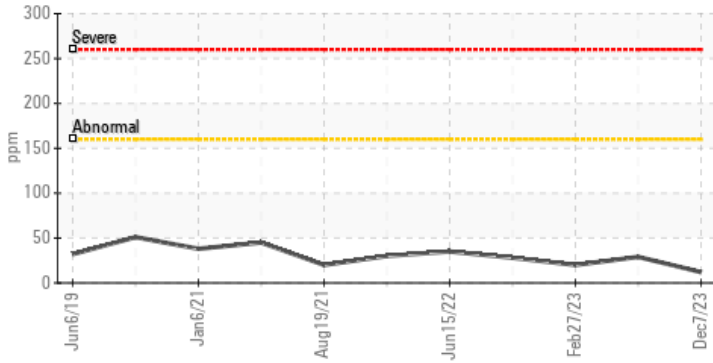


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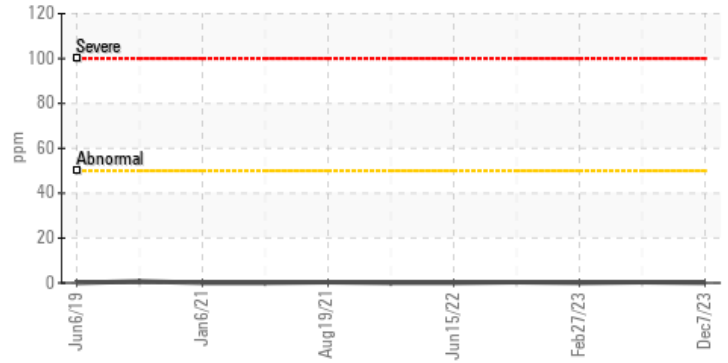


GRAPHS

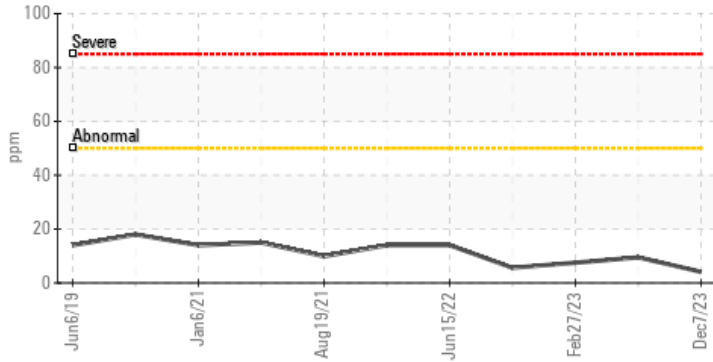
Iron (ppm)



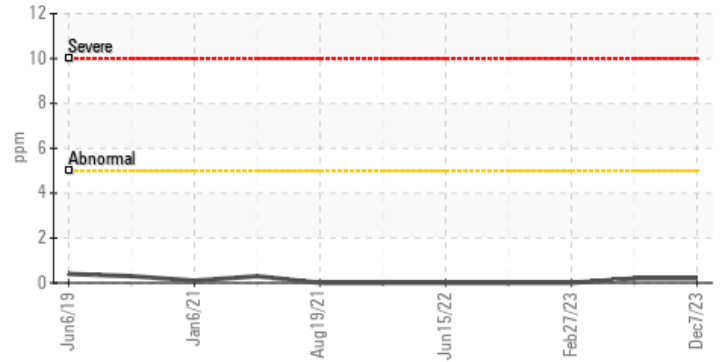
Lead (ppm)



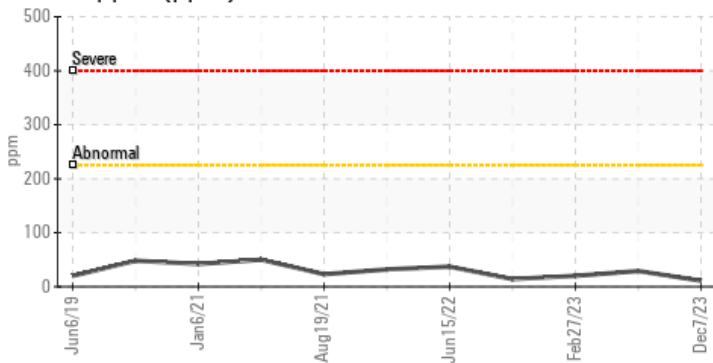
Aluminum (ppm)



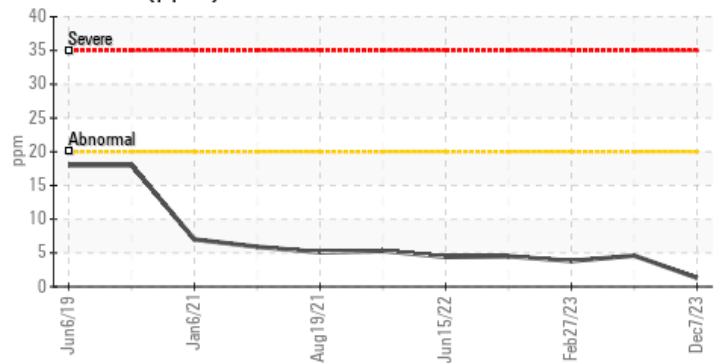
Chromium (ppm)



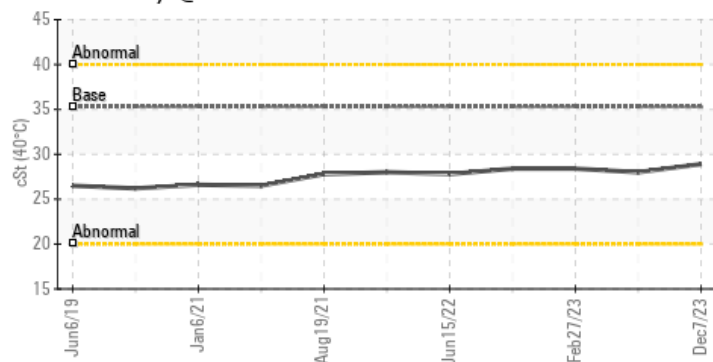
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

