



CONSTRUCTION EQUIPMENT

VOLVO A30G 752143 - BRAKE COOLING SYSTEM



Sample No: VCP454173
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP454173	VCP398075	VCP364316	VCP332921
Sample Date	12 Jan 2024	04 Mar 2023	09 Aug 2022	17 Feb 2022
Machine Hours	3549	4274	3258	2192
Oil Hours	0	4274	0	2192
Oil Changed	N/A	Changed	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	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	43.3	41.9	40.6	39.4
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	12	16	15	15
Sodium	ppm	0	5	6	5
Potassium	ppm	2	4	2	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	8	12	10	11
Copper	ppm	161	223	232	215
Lead	ppm	0	3	<1	8
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	<1	<1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	2	1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3196	3456	3513	3820
Magnesium	ppm	9	11	6	7
Zinc	ppm	1414	1473	1464	1417
Phosphorus	ppm	1026	1227	1264	1347
Barium	ppm	6	0	0	0
Boron	ppm	108	104	128	114

Depot: RIPTAM
Unique No: 10863736
Signed: Jonathan Hester
Report Date: 08 Feb 2024

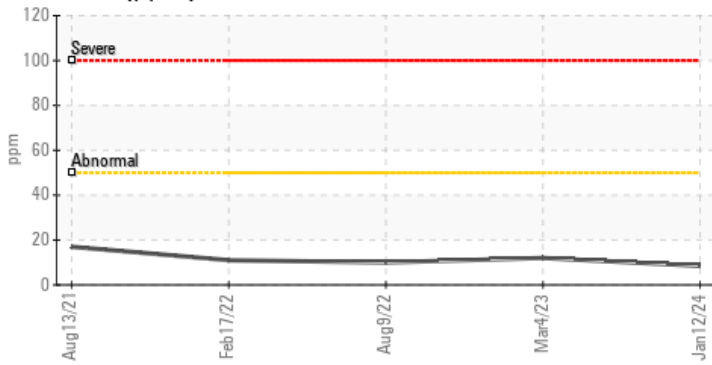


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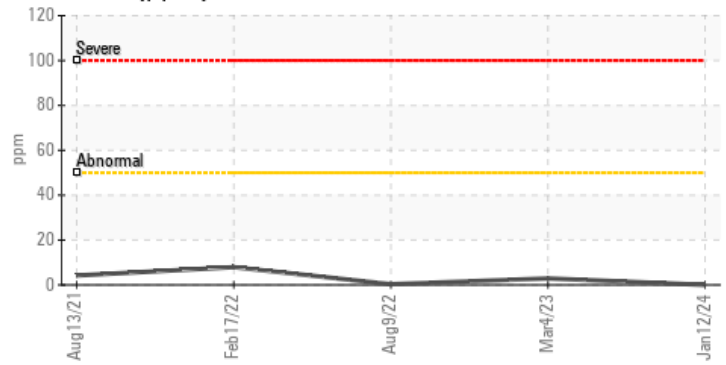


GRAPHS

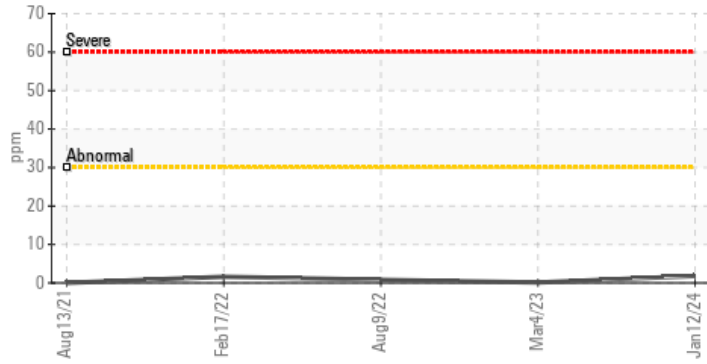
Iron (ppm)



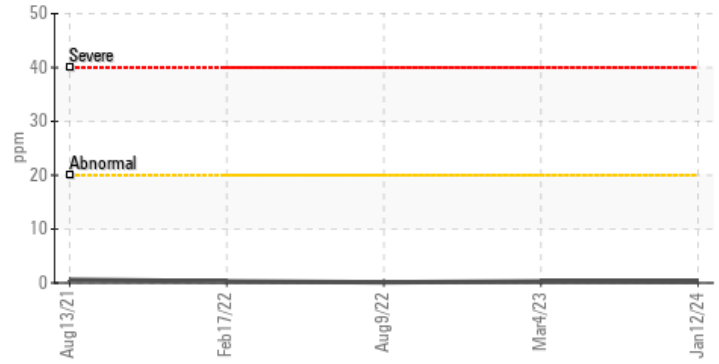
Lead (ppm)



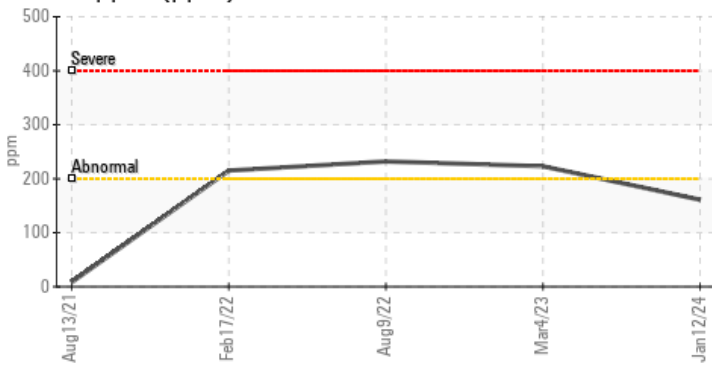
Aluminum (ppm)



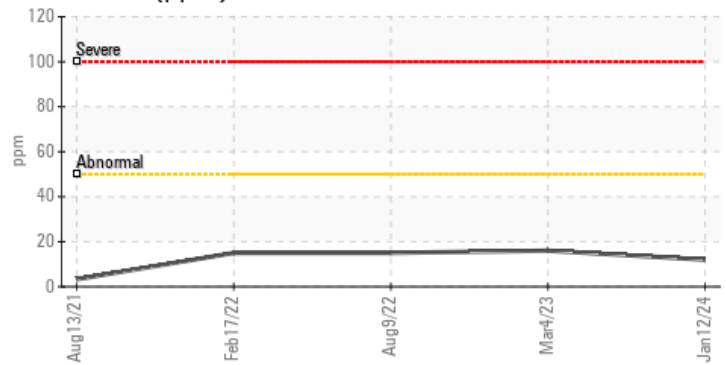
Chromium (ppm)



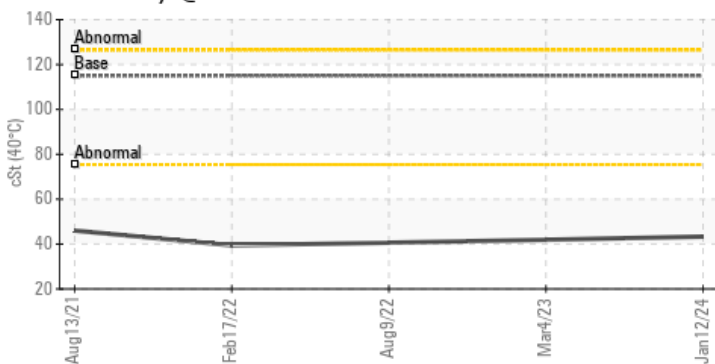
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

