



CONSTRUCTION EQUIPMENT

MARTIN MARIETTA VOLVO A60H 340053 - TRANSMISSION



Sample No: VCP423984
Oil Type: CHEVRON AUTOMATIC TRANS FLUID MD-3
Job No: MARTIN MARIETTA



SAMPLE INFORMATION

Sample Number	VCP423984	VCP302862	VCP297159	VCP271867
Sample Date	28 Aug 2023	17 May 2021	06 Mar 2021	05 Aug 2020
Machine Hours	7391	4220	3845	3000
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Chngd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	92.6	83.1	72.2	42.0
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CONTAMINATION

Silicon	ppm	6	6	7	3
Sodium	ppm	0	3	1	2
Potassium	ppm	2	<1	1	2



WEAR METALS

Iron	ppm	6	10	12	12
Copper	ppm	18	26	17	17
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	3	3	0	0
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	29	100	100	13
Nickel	ppm	2	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	2	9	19	20
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	2662	1425	1256	819
Magnesium	ppm	157	513	448	149
Zinc	ppm	1183	886	721	445
Phosphorus	ppm	983	806	666	455
Barium	ppm	0	0	0	0
Boron	ppm	79	422	364	95

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. Confirm oil type. The condition of the fluid is acceptable for the time in service.

Depot: VOLVO0088
Unique No: 10660063
Signed: Don Baldrige
Report Date: 24 Sep 2023

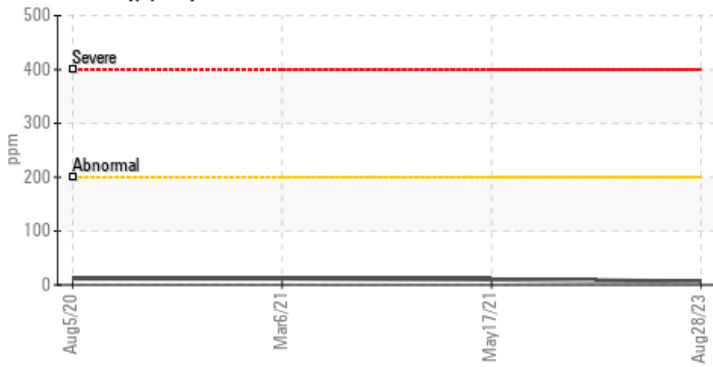


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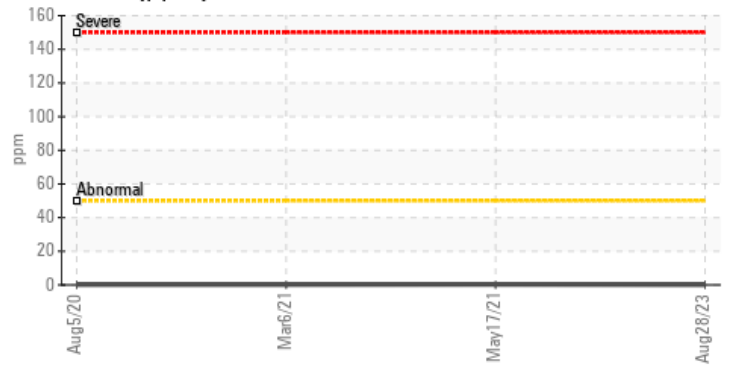


GRAPHS

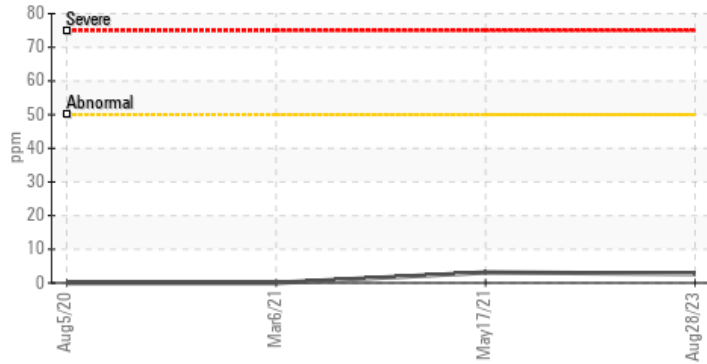
Iron (ppm)



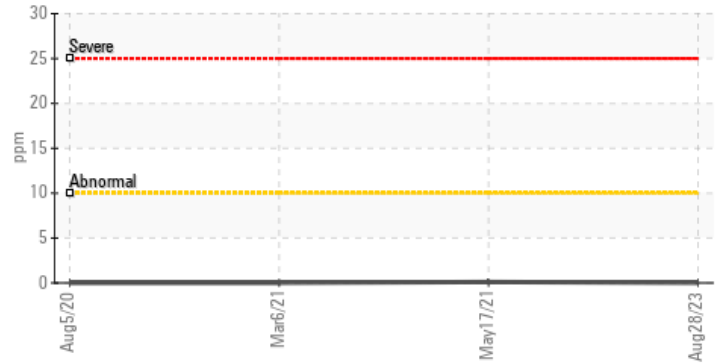
Lead (ppm)



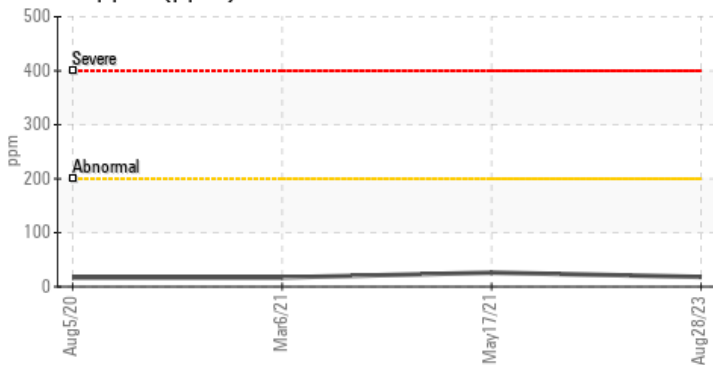
Aluminum (ppm)



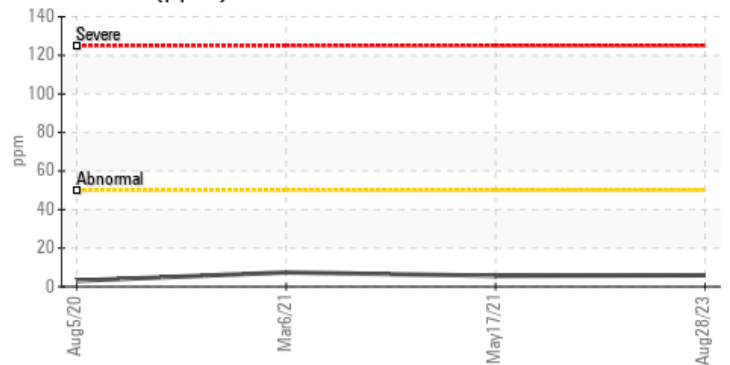
Chromium (ppm)



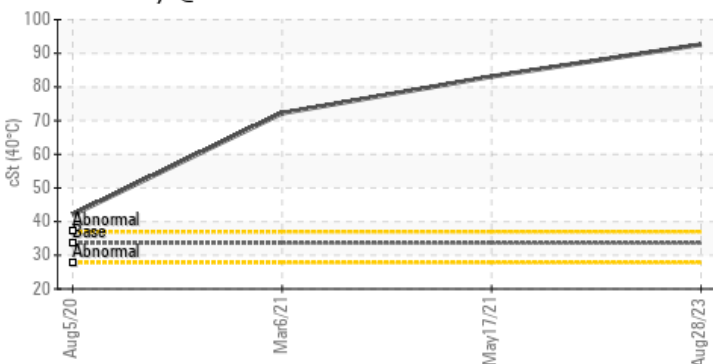
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

