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VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[400402]
Machine Id
16-8112
Component
Transmission (Auto)
Fluid
VOLVO AUTOMATIC TRANSMISSION FLUID AT102 (--- GAL)

RECOMMENDATION

We recommend that you drain the fluid from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

WEAR

Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

CONTAMINATION

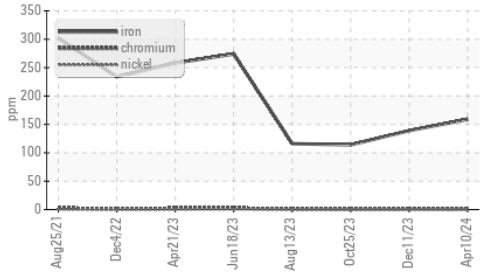
There is no indication of any contamination in the fluid.

FLUID CONDITION

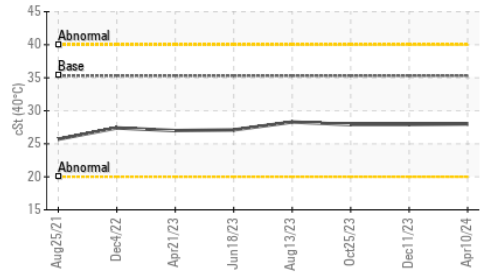
Additive levels indicate the addition of a different brand, or type of fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP448204	VCP430147	VCP380509
Sample Date		Client Info		10 Apr 2024	11 Dec 2023	25 Oct 2023
Machine Age	hrs	Client Info		10000	9500	9000
Oil Age	hrs	Client Info		2000	1500	1000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
PQ		ASTM D8184*	>60	0	---	---
Iron	ppm	ASTM D5185(m)	>140	▲ 159	139	114
Chromium	ppm	ASTM D5185(m)	>2	1	1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>20	0	<1	<1
Copper	ppm	ASTM D5185(m)	>100	5	5	4
Tin	ppm	ASTM D5185(m)	>2	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>20	3	4	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		2	2	2
Boron	ppm	ASTM D5185(m)	187	80	79	80
Barium	ppm	ASTM D5185(m)	0.0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0.0	0	0	0
Manganese	ppm	ASTM D5185(m)	0.0	3	2	2
Magnesium	ppm	ASTM D5185(m)	6.8	1	<1	<1
Calcium	ppm	ASTM D5185(m)	215	72	71	72
Phosphorus	ppm	ASTM D5185(m)	445	190	192	195
Zinc	ppm	ASTM D5185(m)	56	9	7	6
Sulfur	ppm	ASTM D5185(m)	1336	1661	1703	1644
Visc @ 40°C	cSt	ASTM D7279(m)	35.3	28.0	27.9	27.9

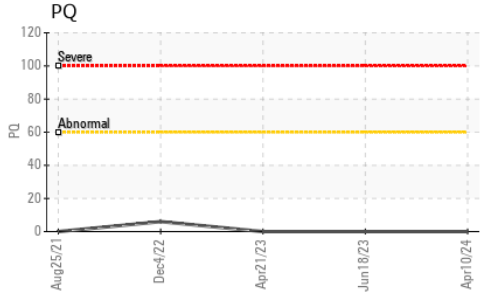
Ferrous Alloys



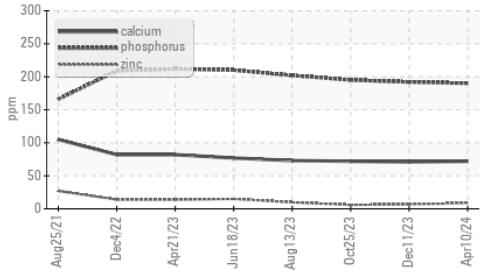
Viscosity @ 40°C



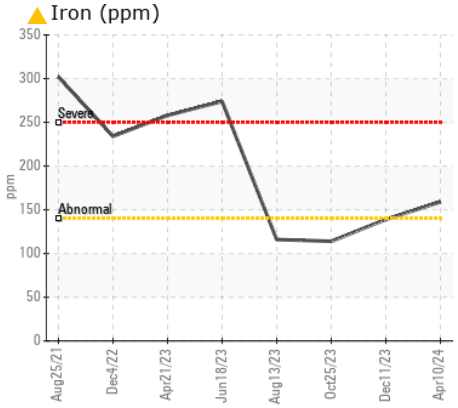
PQ



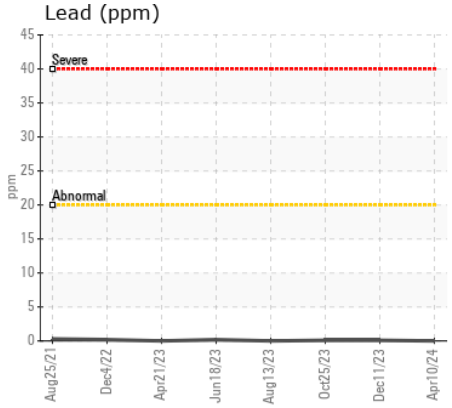
Additives



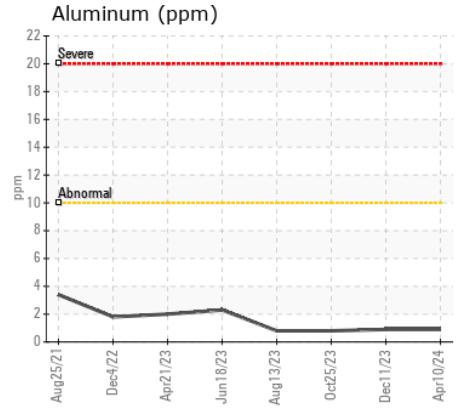
Iron (ppm)



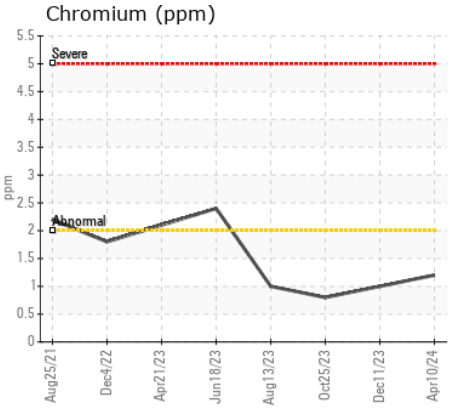
Lead (ppm)



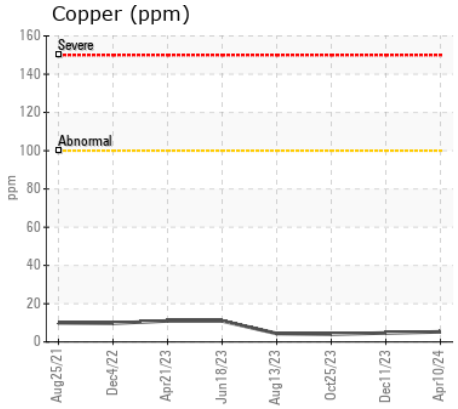
Aluminum (ppm)



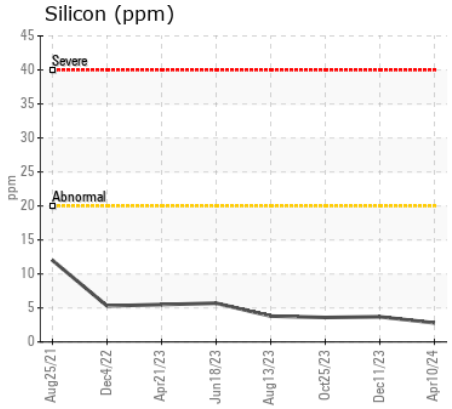
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



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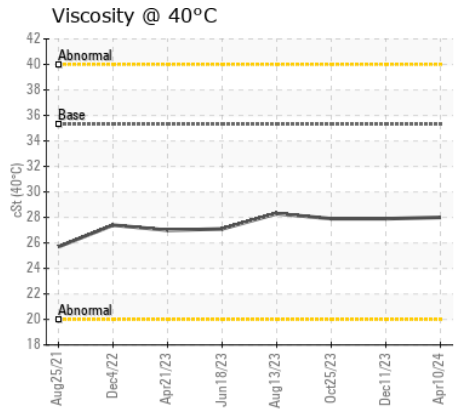
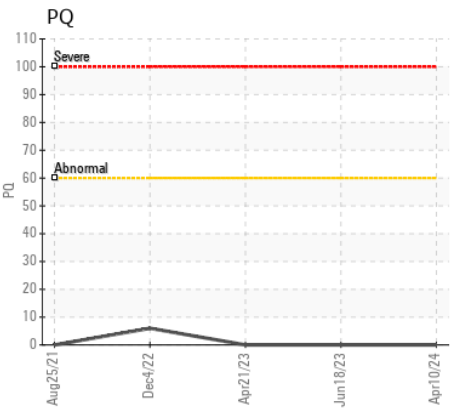


PQ



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: VCP448204	**Received**	: 17 Apr 2024
Lab Number	: 02629693	**Tested**	: 18 Apr 2024
Unique Number	: 5762825	**Diagnosed**	: 18 Apr 2024 - Kevin Marson
Test Package	: MOB 1 (Additional Tests: PQ)		

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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