



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
VOLVO A40G VCE0A40GKE0338

Component
Front Right Planetary

Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

Copper ppm levels are severe. Thrust washer and/or bearing/bushing wear is indicated.

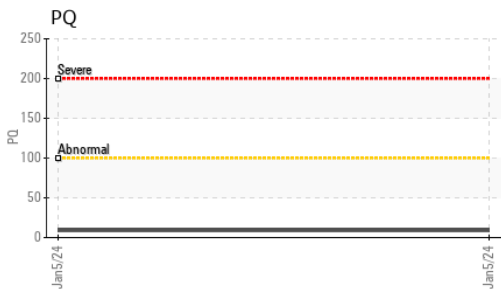
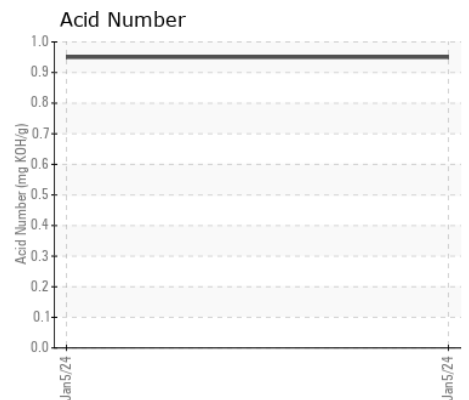
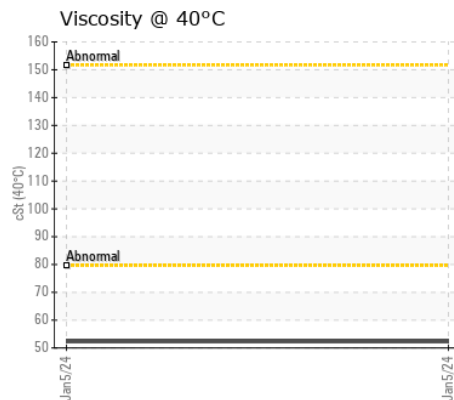
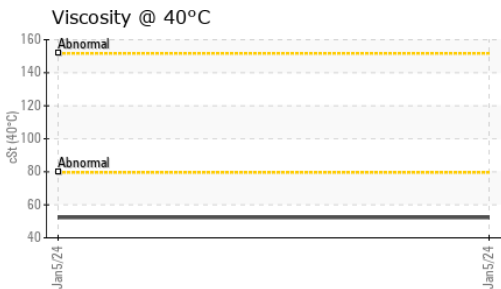
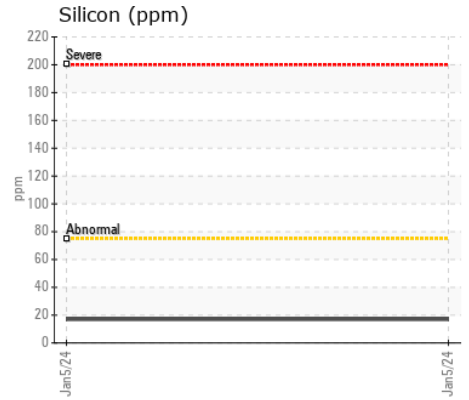
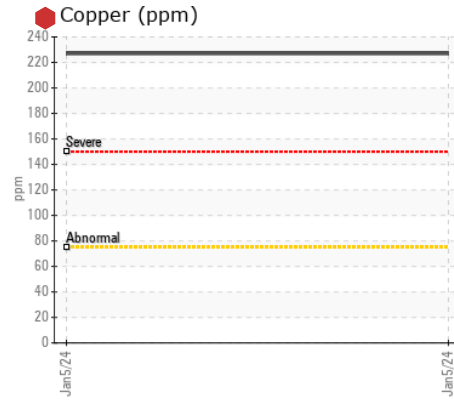
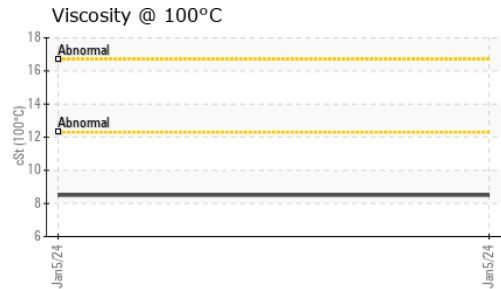
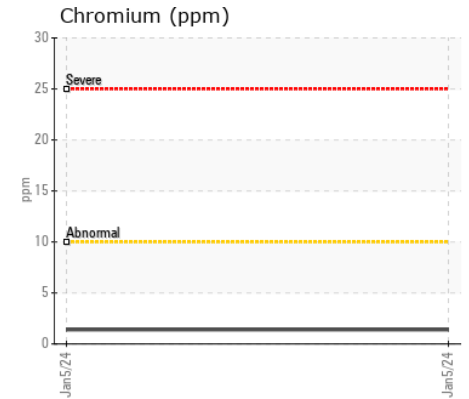
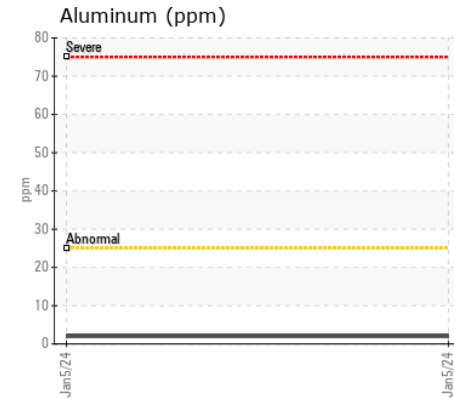
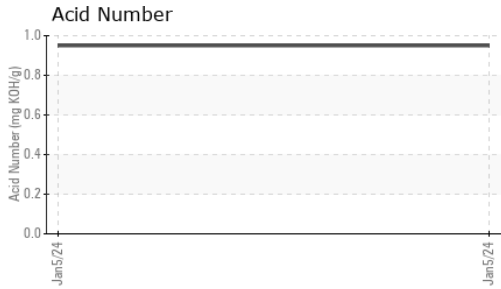
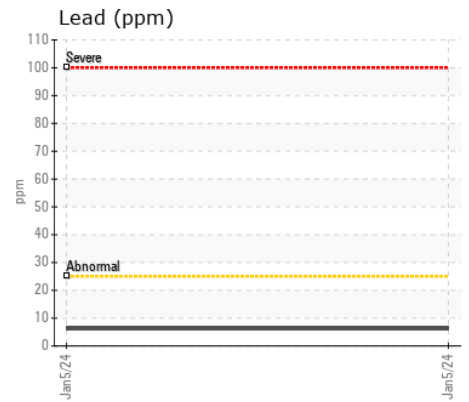
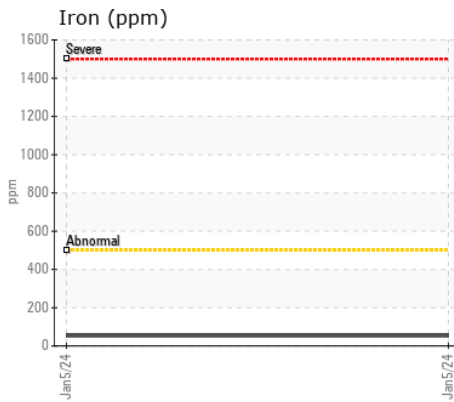
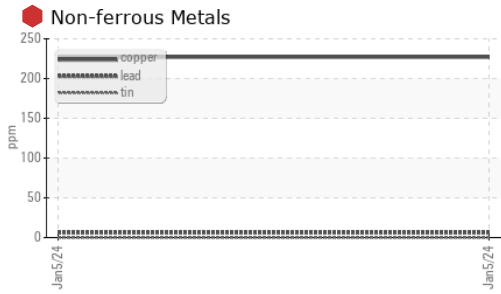
CONTAMINATION

There is a moderate concentration of water present in the oil. Free water present.

FLUID CONDITION

The white residue present in the sample is oil additive precipitate. The AN level is acceptable for this fluid. The oil 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		TR02609049	---	---
Sample Date		Client Info		05 Jan 2024	---	---
Machine Age	kms	Client Info		9762	---	---
Oil Age	kms	Client Info		0	---	---
Filter Age	kms	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184*		9	---	---
Iron	ppm	ASTM D5185(m)	>500	53	---	---
Chromium	ppm	ASTM D5185(m)	>10	1	---	---
Nickel	ppm	ASTM D5185(m)	>10	3	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	2	---	---
Lead	ppm	ASTM D5185(m)	>25	6	---	---
Copper	ppm	ASTM D5185(m)	>75	227	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)	>75	17	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Water		WC Method	>0.2	NEG	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	WGOIL	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	.2%	---	---
Sodium	ppm	ASTM D5185(m)		3	---	---
Boron	ppm	ASTM D5185(m)		72	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		<1	---	---
Manganese	ppm	ASTM D5185(m)		1	---	---
Magnesium	ppm	ASTM D5185(m)		16	---	---
Calcium	ppm	ASTM D5185(m)		3633	---	---
Phosphorus	ppm	ASTM D5185(m)		1101	---	---
Zinc	ppm	ASTM D5185(m)		1279	---	---
Sulfur	ppm	ASTM D5185(m)		4096	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		0.95	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		52.3	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		8.5	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		137	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02609049 **Received** : 16 Jan 2024
Lab Number : 02609049 **Diagnosed** : 17 Jan 2024
Unique Number : 5710135 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: Bottom, KV100, PQ, VI)

GARDEN PLANE COLONY
 BOX # 399
 FRONTIER, SK
 CA S0N 0W0
 Contact: JAKE

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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