



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
KEN BEST [AK 502568]
Machine Id
VOLVO PENTA 4112067470 - STERNDRIVE
Component
Gearbox
Fluid
VOLVO API GL-5 SAE 75W90 (3 QTS)

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.

WEAR

Gear wear is indicated.

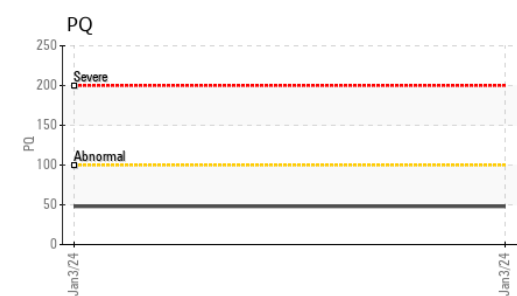
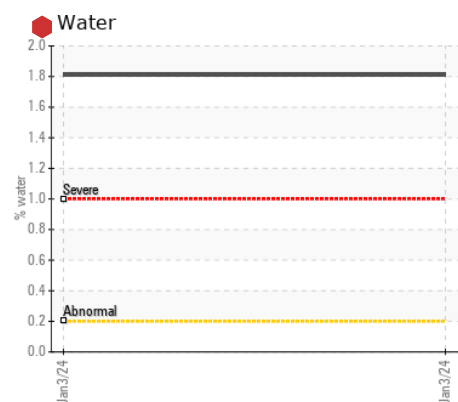
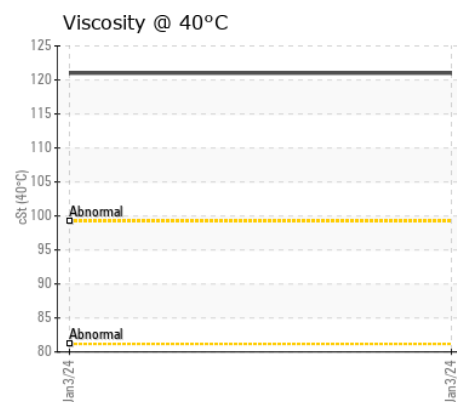
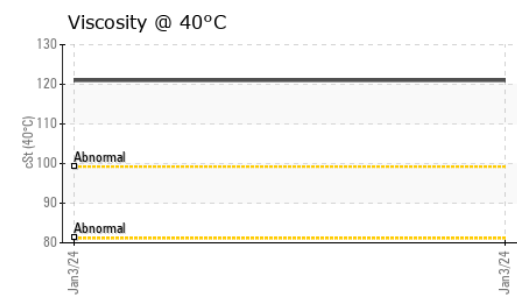
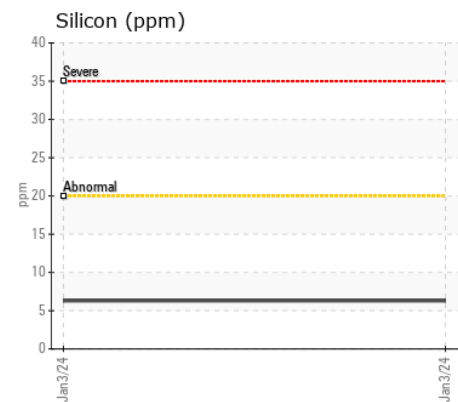
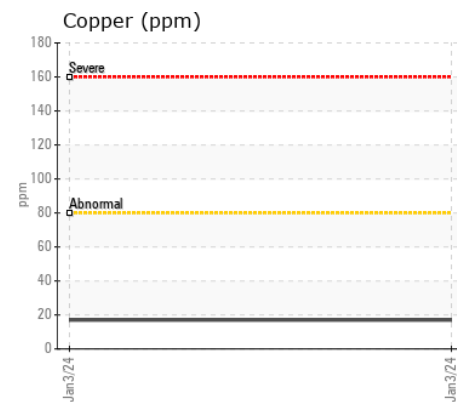
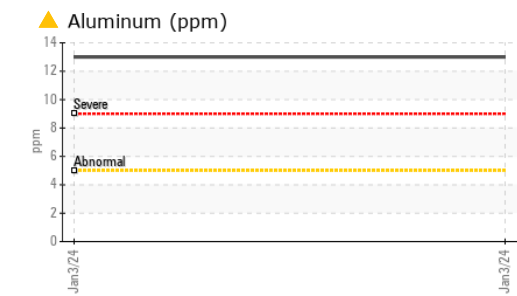
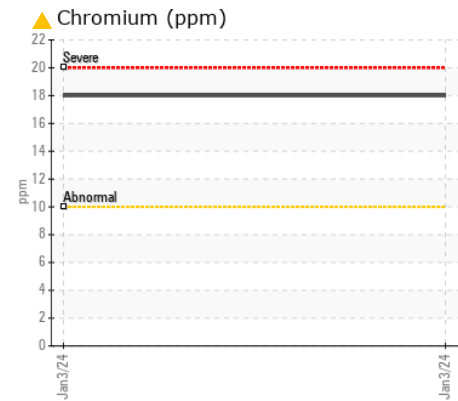
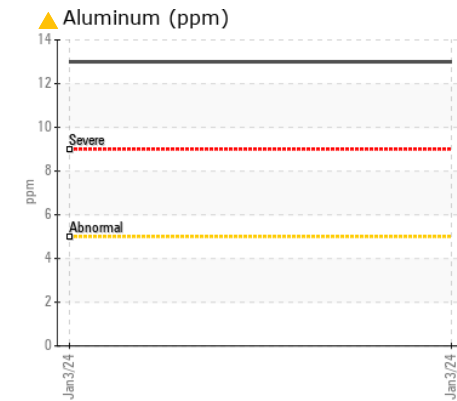
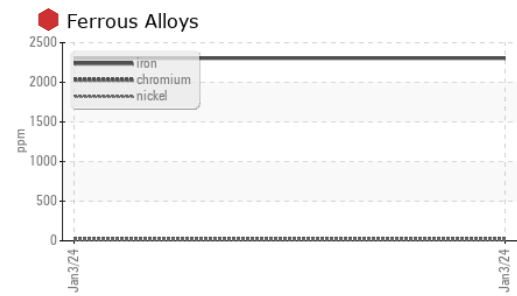
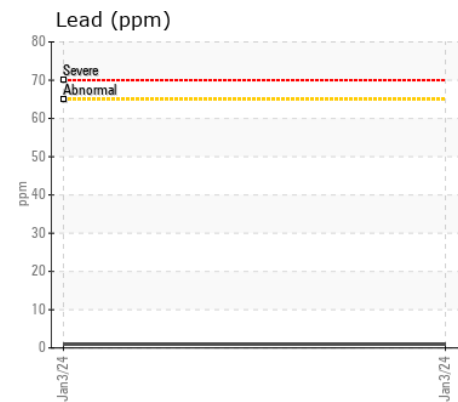
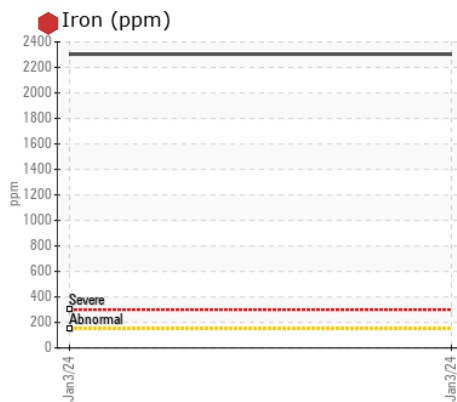
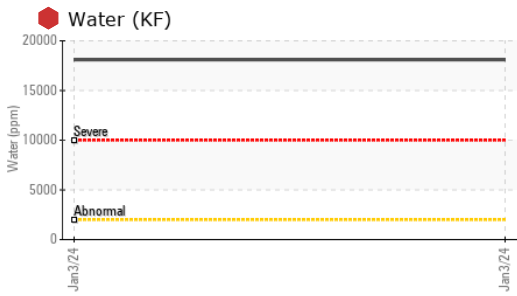
CONTAMINATION

There is a high concentration of water present in the oil.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA059369	---	---
Sample Date		Client Info		03 Jan 2024	---	---
Machine Age	hrs	Client Info		221	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184		48	---	---
Iron	ppm	ASTM D5185m	>150	2304	---	---
Chromium	ppm	ASTM D5185m	>10	18	---	---
Nickel	ppm	ASTM D5185m	>10	9	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>5	13	---	---
Lead	ppm	ASTM D5185m	>65	1	---	---
Copper	ppm	ASTM D5185m	>80	17	---	---
Tin	ppm	ASTM D5185m	>8	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>20	6	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water	%	ASTM D6304	>0.2	1.81	---	---
ppm Water	ppm	ASTM D6304	>2000	18100	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	---	---
Sodium	ppm	ASTM D5185m		3	---	---
Boron	ppm	ASTM D5185m		119	---	---
Barium	ppm	ASTM D5185m		7	---	---
Molybdenum	ppm	ASTM D5185m		15	---	---
Manganese	ppm	ASTM D5185m		15	---	---
Magnesium	ppm	ASTM D5185m		3	---	---
Calcium	ppm	ASTM D5185m		12	---	---
Phosphorus	ppm	ASTM D5185m		1027	---	---
Zinc	ppm	ASTM D5185m		47	---	---
Sulfur	ppm	ASTM D5185m		27766	---	---
Visc @ 40°C	cSt	ASTM D445		121	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA059369 **Received** : 08 Jan 2024
Lab Number : 06054321 **Diagnosed** : 10 Jan 2024
Unique Number : 10820270 **Diagnostician** : Jonathan Hester
Test Package : MOB 1 (Additional Tests: KF, PQ)

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 F: (206)784-8823

Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - 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)