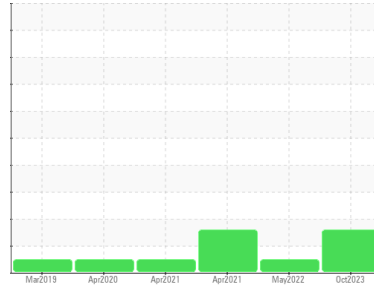




PROBLEM SUMMARY

Sample Rating Trend



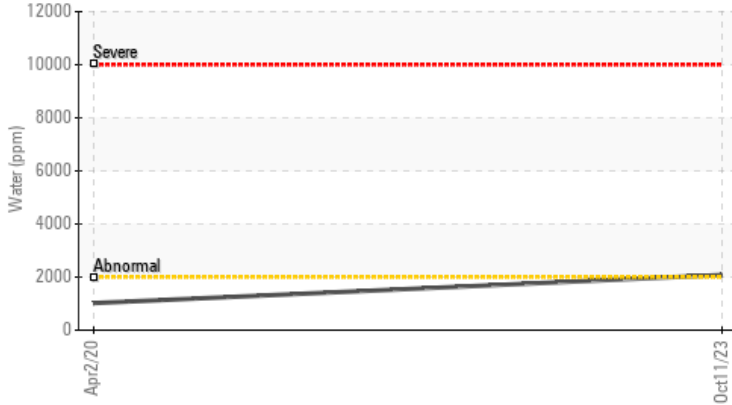
WATER



Area
PERFECT MATCH
 Machine Id
Port IPS (S/N 3940022117)
 Component
Port IPS
 Fluid
VOLVO API GL-5 SAE 75W90 (4 GAL)

COMPONENT CONDITION SUMMARY

▲ Water (KF)



RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	ATTENTION
Water	%	ASTM D6304	>0.2	▲ 0.208	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2080	---	---

Customer Id: VPJOEVEN
 Sample No.: WC0843052
 Lab Number: 05978398
 Test Package: MAR 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

03 May 2022 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



27 Apr 2021 Diag: Don Baldrige

DIRT



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.

view report



14 Apr 2021 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

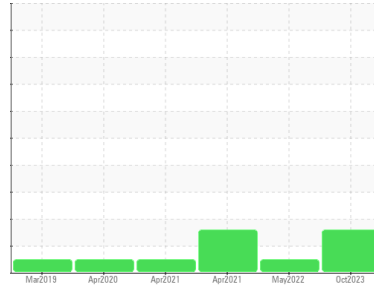
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
PERFECT MATCH
Machine Id
Port IPS (S/N 3940022117)
Component
Port IPS
Fluid
VOLVO API GL-5 SAE 75W90 (4 GAL)

DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0843052	WC0686334	VPA033762
Sample Date	Client Info		11 Oct 2023	03 May 2022	27 Apr 2021
Machine Age	hrs	Client Info	577	486	393
Oil Age	hrs	Client Info	91	93	300
Oil Changed	Client Info		Changed	N/A	Not Changd
Sample Status			ABNORMAL	NORMAL	ATTENTION

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	136	136	153
Chromium	ppm	ASTM D5185m >10	1	1	2
Nickel	ppm	ASTM D5185m >10	1	2	2
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m	0	<1	0
Aluminum	ppm	ASTM D5185m	1	2	2
Lead	ppm	ASTM D5185m	0	0	2
Copper	ppm	ASTM D5185m	11	12	11
Tin	ppm	ASTM D5185m	0	<1	0
Antimony	ppm	ASTM D5185m >5	---	---	0
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	301	300	293
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0
Manganese	ppm	ASTM D5185m	2	3	3
Magnesium	ppm	ASTM D5185m	<1	8	13
Calcium	ppm	ASTM D5185m	11	28	4
Phosphorus	ppm	ASTM D5185m	1365	1419	1455
Zinc	ppm	ASTM D5185m	16	27	9
Sulfur	ppm	ASTM D5185m	23174	20927	22125

CONTAMINANTS

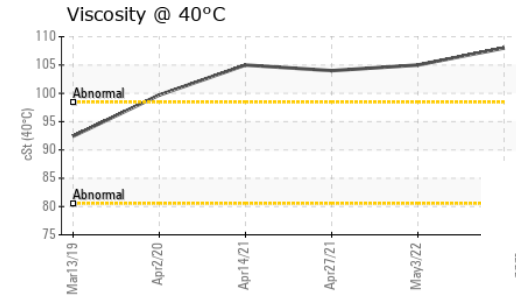
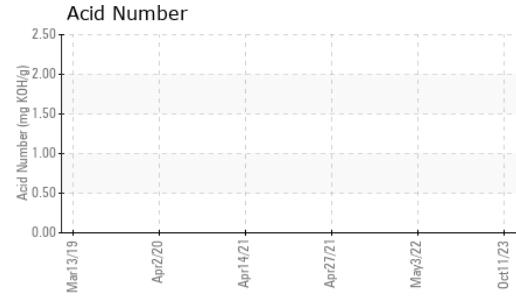
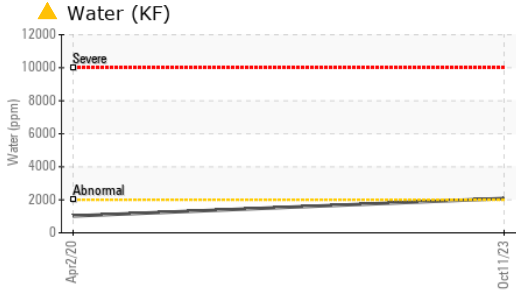
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	19	15	▲ 40
Sodium	ppm	ASTM D5185m	5	3	3
Potassium	ppm	ASTM D5185m >20	0	0	13
Water	%	ASTM D6304 >0.2	▲ 0.208	---	---
ppm Water	ppm	ASTM D6304 >2000	▲ 2080	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	---	---



OIL ANALYSIS REPORT



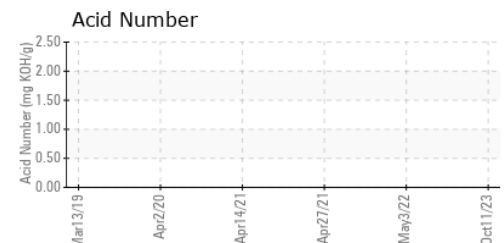
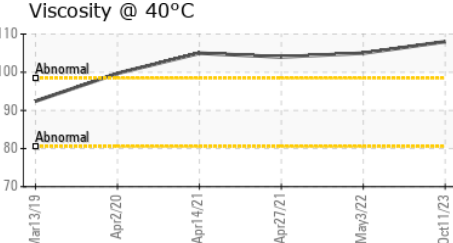
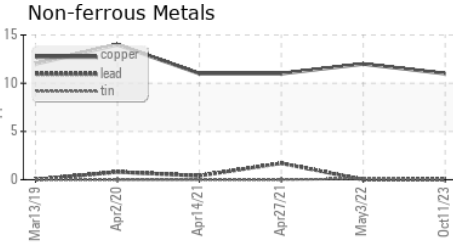
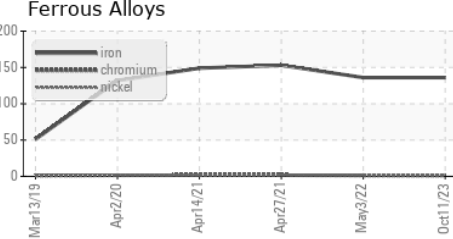
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	108	105	104

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0843052 **Received** : 13 Oct 2023
Lab Number : 05978398 **Diagnosed** : 19 Oct 2023
Unique Number : 10695693 **Diagnostician** : Jonathan Hester
Test Package : MAR 2 (Additional Tests: KF)

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)

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