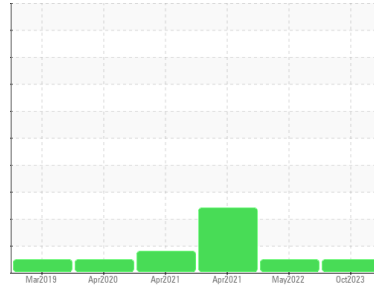




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
PERFECT MATCH
 Machine Id
STB IPS (S/N 3940022118)
 Component
Starboard IPS
 Fluid
VOLVO API GL-5 SAE 75W90 (4 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination 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			WC0843051	WC0686333	VPA033867
Sample Date	Client Info			11 Oct 2023	03 May 2022	27 Apr 2021
Machine Age	hrs	Client Info		577	486	392
Oil Age	hrs	Client Info		91	93	300
Oil Changed	Client Info			Changed	N/A	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	112	123	▲ 278
Chromium	ppm	ASTM D5185m	>10	1	1	2
Nickel	ppm	ASTM D5185m	>10	<1	1	4
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m		1	2	4
Lead	ppm	ASTM D5185m		0	0	2
Copper	ppm	ASTM D5185m		9	12	19
Tin	ppm	ASTM D5185m		0	<1	0
Antimony	ppm	ASTM D5185m	>5	---	---	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		301	307	257
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		2	3	7
Magnesium	ppm	ASTM D5185m		0	5	18
Calcium	ppm	ASTM D5185m		32	35	10
Phosphorus	ppm	ASTM D5185m		1354	1400	1385
Zinc	ppm	ASTM D5185m		6	27	19
Sulfur	ppm	ASTM D5185m		22823	20822	22108

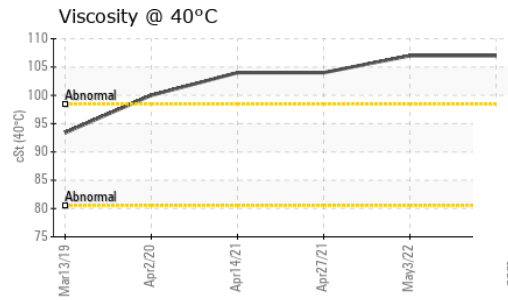
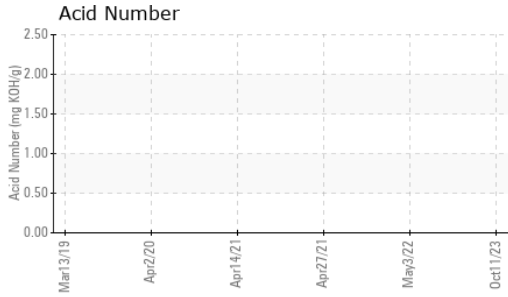
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		15	14	▲ 53
Sodium	ppm	ASTM D5185m		3	4	9
Potassium	ppm	ASTM D5185m	>20	0	0	18

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.28	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG



OIL ANALYSIS REPORT



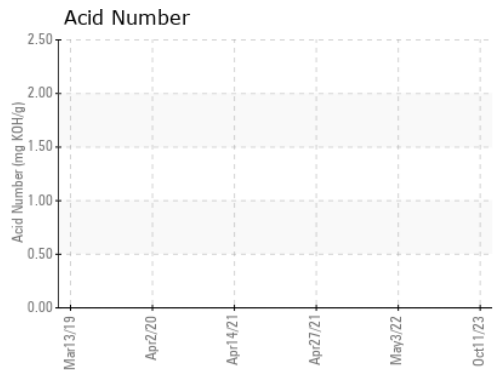
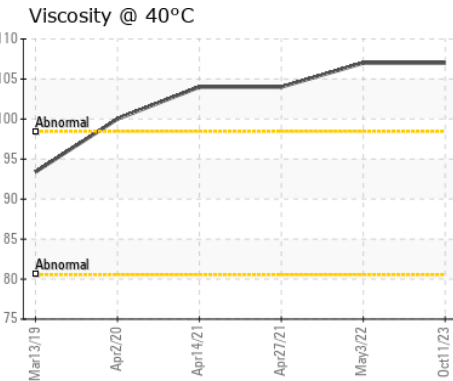
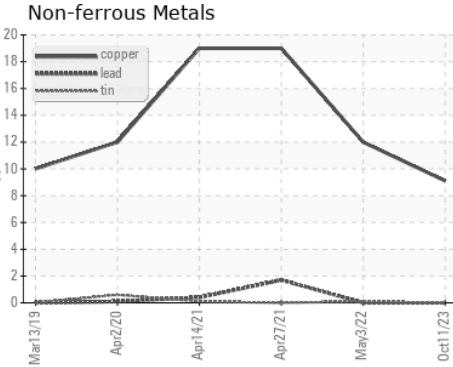
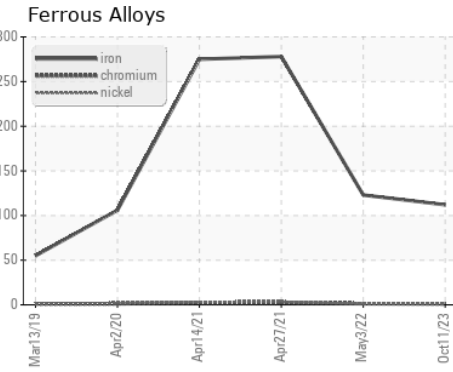
FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	107	107	104

SAMPLE IMAGES

	method	limit/base	current	history1	history2
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. : WC0843051 **Received** : 13 Oct 2023
Lab Number : 05978397 **Diagnosed** : 19 Oct 2023
Unique Number : 10695692 **Diagnostician** : Jonathan Hester
Test Package : MAR 2

JOE CIVITTOLO
 13645 TRENTINO ST
 VENICE, FL
 US 34293
 Contact: JOE CIVITTOLO
 jpcivi@sbcglobal.net
 T: (860)202-0015
 F:

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)