



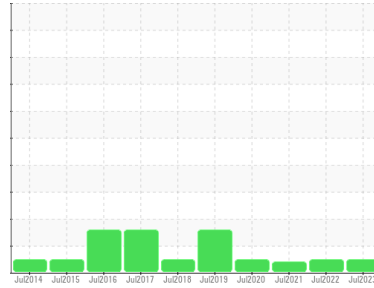
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
VOLVO 12695
Component
Front Differential
Fluid
SHELL SPIRAX HD 75W90 (16 QTS)



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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0760399	WC0692798	WC0567165
Sample Date	Client Info		05 Jul 2023	12 Jul 2022	26 Jul 2021
Machine Age	mls	Client Info	605560	583510	542951
Oil Age	mls	Client Info	4450	280720	240164
Oil Changed	Client Info		Not Chngd	Not Chngd	Changed
Sample Status			NORMAL	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	93	479	376
Chromium	ppm	ASTM D5185m >10	<1	3	2
Nickel	ppm	ASTM D5185m >10	<1	<1	<1
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m	0	<1	0
Aluminum	ppm	ASTM D5185m >25	0	2	<1
Lead	ppm	ASTM D5185m >25	0	<1	<1
Copper	ppm	ASTM D5185m >100	<1	2	2
Tin	ppm	ASTM D5185m >10	0	<1	0
Antimony	ppm	ASTM D5185m >5	---	---	0
Vanadium	ppm	ASTM D5185m	0	<1	<1
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	196	197	149
Barium	ppm	ASTM D5185m	0	4	0
Molybdenum	ppm	ASTM D5185m	<1	<1	0
Manganese	ppm	ASTM D5185m	2	13	10
Magnesium	ppm	ASTM D5185m	0	4	0
Calcium	ppm	ASTM D5185m	12	6	3
Phosphorus	ppm	ASTM D5185m	1129	1529	1379
Zinc	ppm	ASTM D5185m	<1	15	6
Sulfur	ppm	ASTM D5185m	25039	28466	23944

CONTAMINANTS

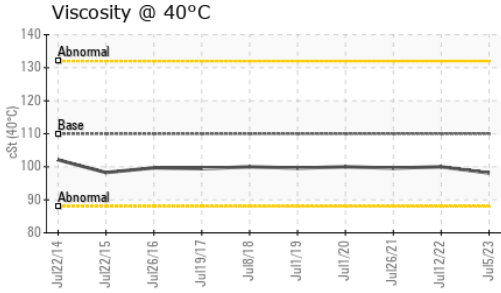
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	17	73	65
Sodium	ppm	ASTM D5185m	0	4	6
Potassium	ppm	ASTM D5185m >20	1	<1	14

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	NONE
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	▲ MODER
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 >.2	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG



OIL ANALYSIS REPORT

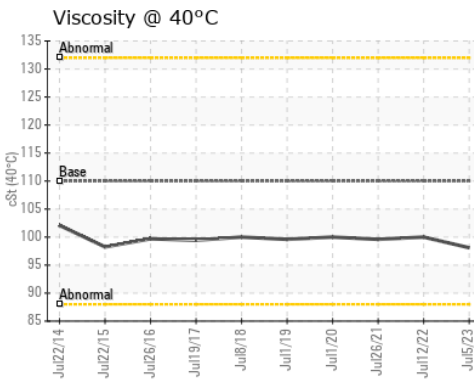
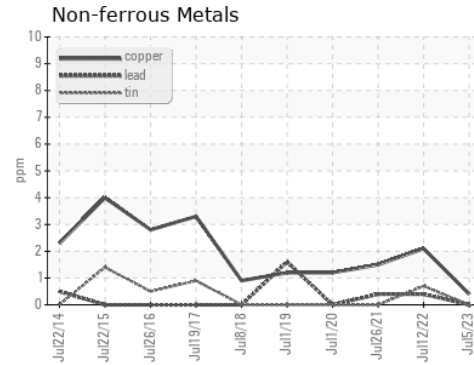
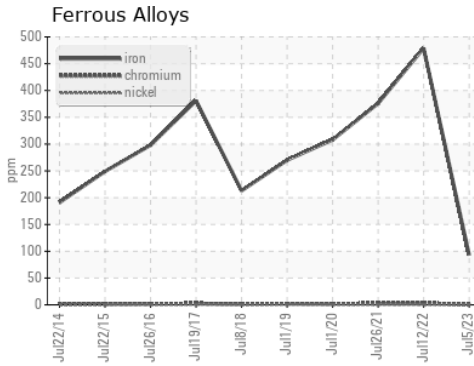


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	110	98.1	100	99.6

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. : WC0760399 **Received** : 17 Jul 2023
Lab Number : 05900264 **Diagnosed** : 19 Jul 2023
Unique Number : 10561620 **Diagnostician** : Sean Felton
Test Package : FLEET

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 F: (941)484-1833

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)