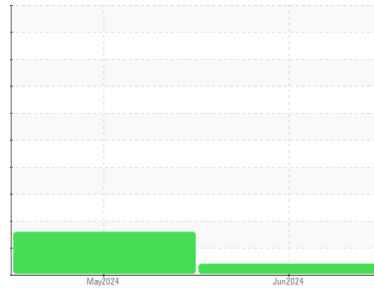




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area

MINING

Machine Id

ME-56 VOLVO L350F ME-56

Component

Hydraulic System

Fluid

SHELL Spirax S4 CX 10W (--- GAL)



DIAGNOSIS

▲ Recommendation

We recommend an early resample to monitor this condition. Please note that this is a corrected copy.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable.

▲ Fluid Condition

The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0939951	WC0939960	---
Sample Date	Client Info		17 Jun 2024	29 May 2024	---
Machine Age	hrs	Client Info	11200	11775	---
Oil Age	hrs	Client Info	11200	1500	---
Oil Changed	Client Info		N/A	Not Changd	---
Sample Status			ABNORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	11	8	---
Chromium	ppm	ASTM D5185m >20	<1	<1	---
Nickel	ppm	ASTM D5185m >10	0	<1	---
Titanium	ppm	ASTM D5185m	0	<1	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >20	2	3	---
Lead	ppm	ASTM D5185m >20	0	2	---
Copper	ppm	ASTM D5185m >150	39	9	---
Tin	ppm	ASTM D5185m >20	<1	<1	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	4	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	10	48	---
Manganese	ppm	ASTM D5185m	0	0	---
Magnesium	ppm	ASTM D5185m	144	758	---
Calcium	ppm	ASTM D5185m	2750	1297	---
Phosphorus	ppm	ASTM D5185m	1056	1074	---
Zinc	ppm	ASTM D5185m	1269	1190	---
Sulfur	ppm	ASTM D5185m	5641	3616	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	6	10	---
Sodium	ppm	ASTM D5185m	0	2	---
Potassium	ppm	ASTM D5185m >20	2	3	---

FLUID CLEANLINESS

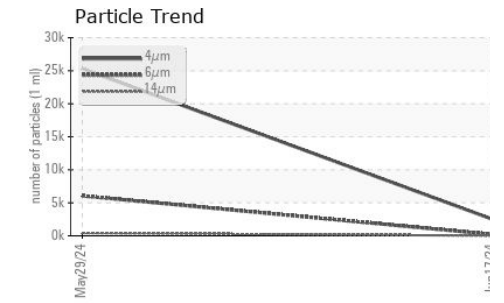
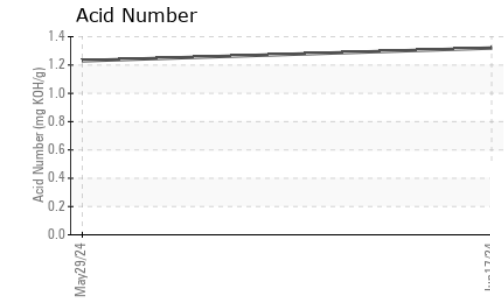
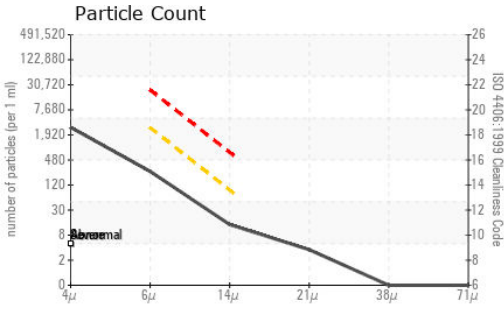
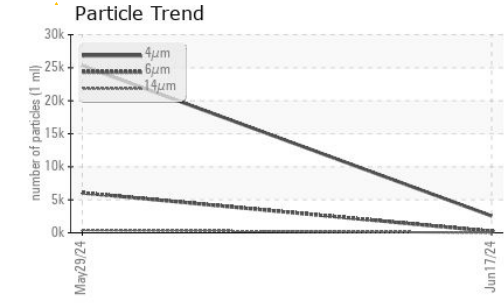
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		2552	25324	---
Particles >6µm	ASTM D7647	>2500	225	▲ 6051	---
Particles >14µm	ASTM D7647	>80	12	▲ 411	---
Particles >21µm	ASTM D7647	>20	3	▲ 92	---
Particles >38µm	ASTM D7647	>4	0	2	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>--/18/13	19/15/11	▲ 22/20/16	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.32	1.23	---



OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
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	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 36	▲ 82.4	42.5	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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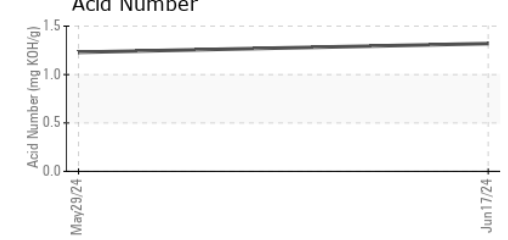
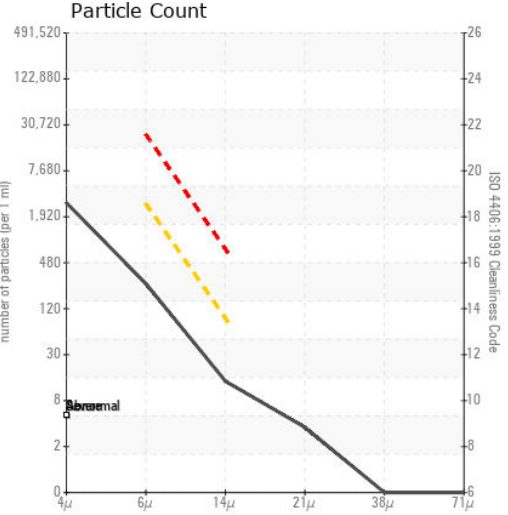
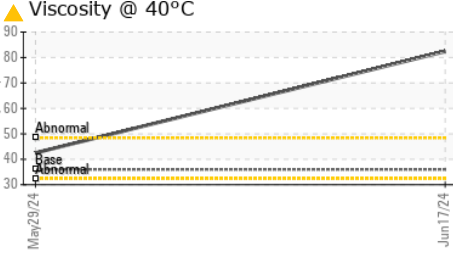
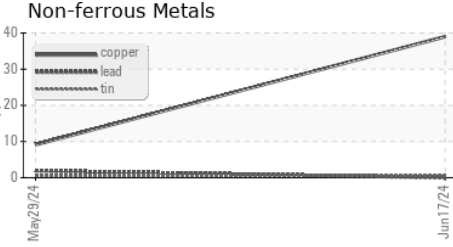
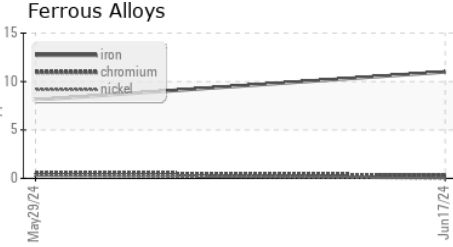
Color

no image

Bottom

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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0939951 **Received** : 19 Jun 2024
Lab Number : 06214568 **Tested** : 05 Jul 2024
Unique Number : 11087432 **Diagnosed** : 05 Jul 2024 - Angela Borella
Test Package : CONST

COVIA - OTTAWA - LESUEUR - 008
 39770 OTTAWA ROAD
 LE SUEUR, MN
 US 56058-4292
 Contact: Sam Donner
 samuel.donner@coviacorp.com
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 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)