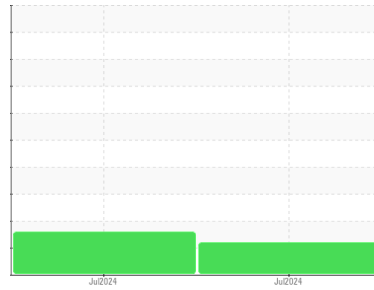




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
VOLVO EC 360 CL 213 (S/N VCEC360CT001)
 Component
Hydraulic System
 Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation

Nous recommandons le remplacement des filtres de ce composant. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. À NOTER: S.V.P. inclure, avec le prochain échantillon, des détails de la capacité du réservoir et le type et le degré de filtration. Veuillez préciser la marque, le type et la viscosité de l'huile lors de votre prochain échantillon.

Wear

Les taux d'usure de tous les composants sont normaux.

Contamination

Il y a une quantité modérée de particules (de 4 à 14 microns) dans l'huile.

Fluid Condition

Le AN est acceptable pour ce fluide. l'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0941997	WC0941998	---
Sample Date	Client Info		10 Jul 2024	10 Jul 2024	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
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
PQ	ASTM D8184*		0	0	---
Iron	ppm	ASTM D5185(m) >20	25	25	---
Chromium	ppm	ASTM D5185(m) >10	2	2	---
Nickel	ppm	ASTM D5185(m) >10	<1	<1	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m)	0	0	---
Aluminum	ppm	ASTM D5185(m) >10	2	2	---
Lead	ppm	ASTM D5185(m) >10	1	1	---
Copper	ppm	ASTM D5185(m) >75	29	30	---
Tin	ppm	ASTM D5185(m) >10	<1	<1	---
Antimony	ppm	ASTM D5185(m)	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

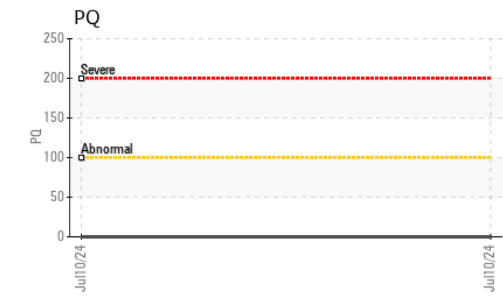
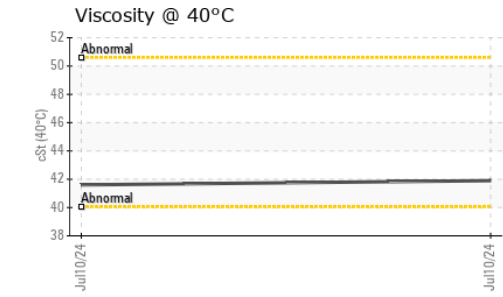
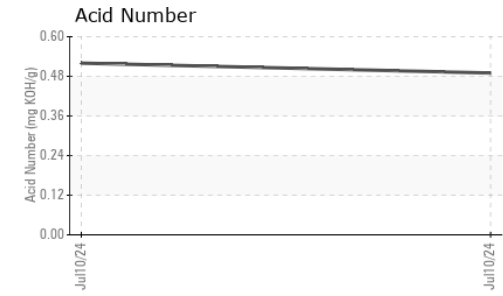
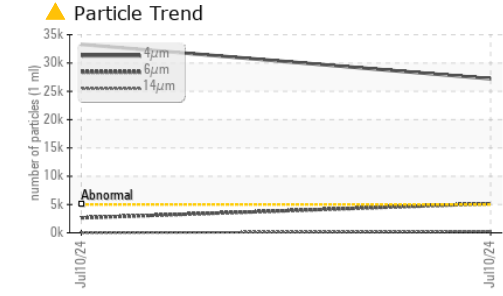
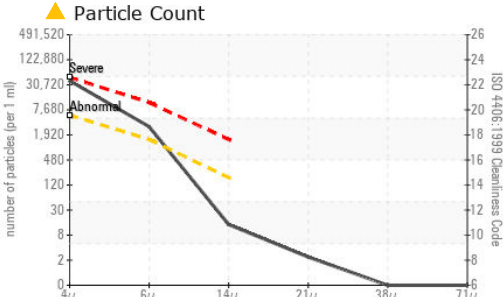
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	1	---
Barium	ppm	ASTM D5185(m)	0	0	---
Molybdenum	ppm	ASTM D5185(m)	<1	<1	---
Manganese	ppm	ASTM D5185(m)	<1	<1	---
Magnesium	ppm	ASTM D5185(m)	10	10	---
Calcium	ppm	ASTM D5185(m)	73	75	---
Phosphorus	ppm	ASTM D5185(m)	364	371	---
Zinc	ppm	ASTM D5185(m)	436	435	---
Sulfur	ppm	ASTM D5185(m)	887	918	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	5	5	---
Sodium	ppm	ASTM D5185(m)	2	2	---
Potassium	ppm	ASTM D5185(m) >20	<1	2	---



OIL ANALYSIS REPORT



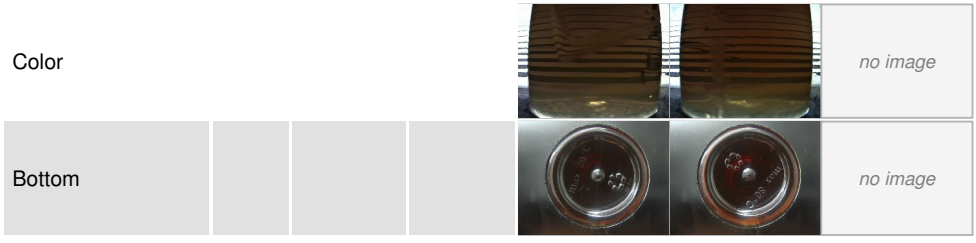
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 33286	▲ 27221	---
Particles >6µm	ASTM D7647	>1300	▲ 2644	▲ 5152	---
Particles >14µm	ASTM D7647	>160	12	● 243	---
Particles >21µm	ASTM D7647	>40	2	39	---
Particles >38µm	ASTM D7647	>10	0	2	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/19/11	▲ 22/20/15	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.49	0.52	---

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*	NEG	NEG	---
Free Water	scalar	Visual*	NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	41.9	41.6	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0941997 **Received** : 12 Jul 2024
Lab Number : **02647659** **Tested** : 15 Jul 2024
Unique Number : 5813211 **Diagnosed** : 15 Jul 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: PQ, TAN Man)

CLEMENT HYDRAULITECH
 5328 BOUL. HEBERT
 SALABERRY-DE-VALLEYFIELD, QC
 CA J6S 6H3
 Contact: Maxim Clement
 mclement@hydraulitech.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.