MOB

VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[8260]
Machine Id
VOLVO ECR355E 310109 - ECR355E
Component
Rear Left Final Drive
Fluid
CHEVRON DELO GEAR ESI OIL 85W140 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

CONTAMINATION

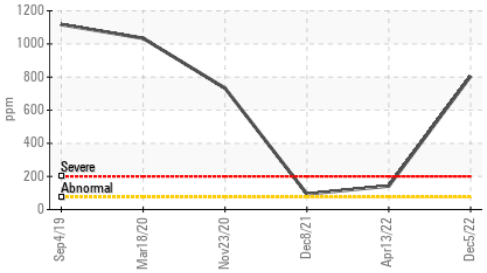
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

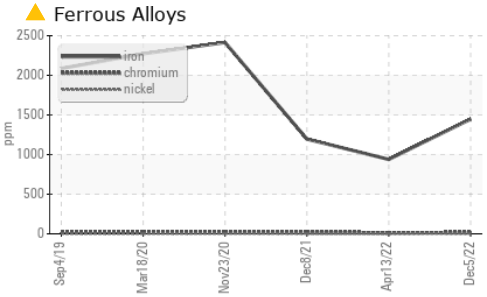
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP387995	VCE142792	VCP312838
Sample Date		Client Info		05 Dec 2022	13 Apr 2022	08 Dec 2021
Machine Age	hrs	Client Info		2888	2598	2266
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>500	▲ 1448	▲ 939	▲ 1196
Chromium	ppm	ASTM D5185m	>10	▲ 16	▲ 12	▲ 20
Nickel	ppm	ASTM D5185m		<1	1	1
Titanium	ppm	ASTM D5185m		18	4	3
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	▲ 133	▲ 33	▲ 27
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>50	2	2	2
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	MODER	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	⬢ 805	▲ 142	▲ 94
Potassium	ppm	ASTM D5185m	>20	26	5	6
Water		WC Method	>0.2	NEG	NEG	NEG
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
Sodium	ppm	ASTM D5185m		6	4	0
Boron	ppm	ASTM D5185m		159	158	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		2	1	2
Manganese	ppm	ASTM D5185m		11	8	13
Magnesium	ppm	ASTM D5185m		8	4	2
Calcium	ppm	ASTM D5185m		54	22	15
Phosphorus	ppm	ASTM D5185m		1174	1862	496
Zinc	ppm	ASTM D5185m		24	16	5
Sulfur	ppm	ASTM D5185m		22912	21787	14731
Visc @ 40°C	cSt	ASTM D445	341	248	▲ 68.0	▲ 187

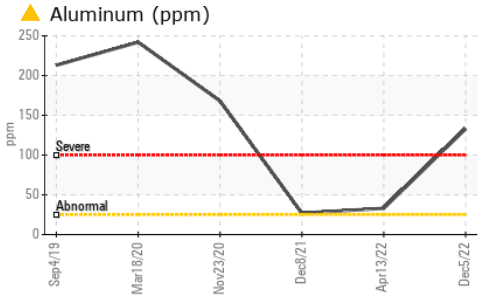
Silicon (ppm)



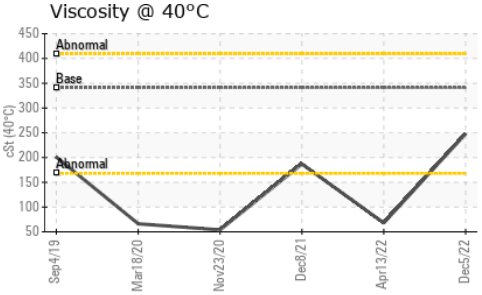
Ferrous Alloys



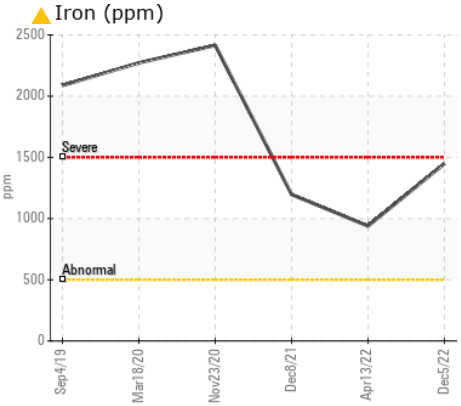
Aluminum (ppm)



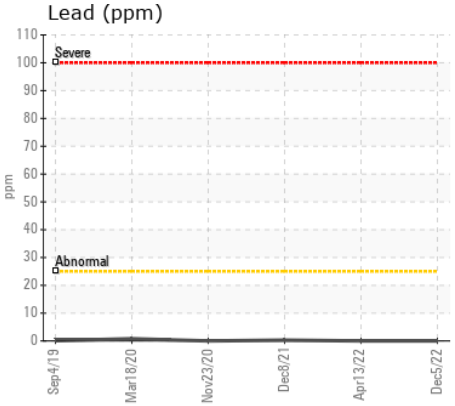
Viscosity @ 40°C



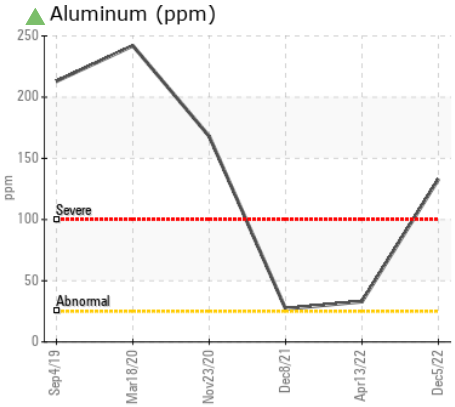
Iron (ppm)



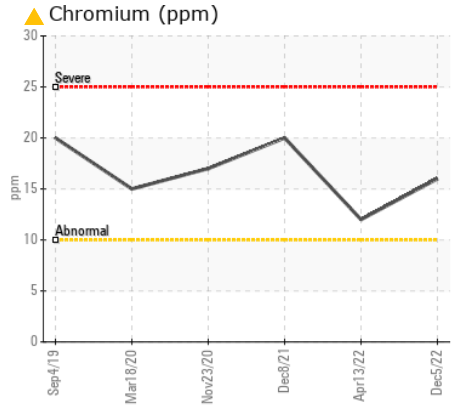
Lead (ppm)



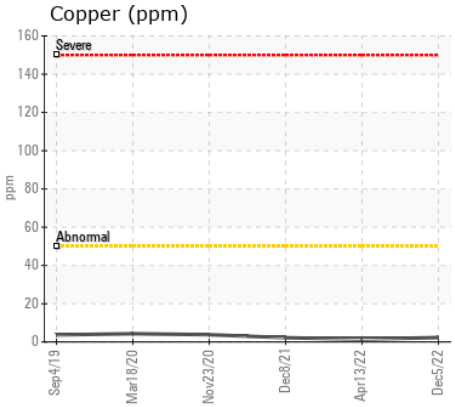
Aluminum (ppm)



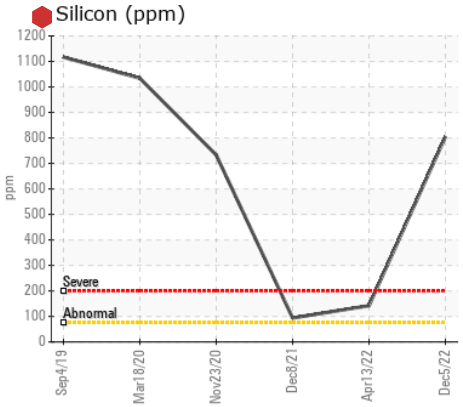
Chromium (ppm)



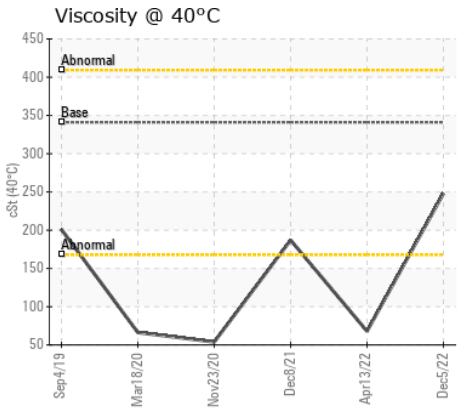
Copper (ppm)



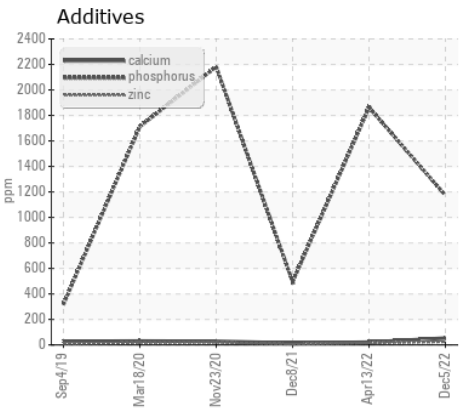
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP387995
Lab Number : 05711862
Unique Number : 10246437
Test Package : MOBCE

Received : 07 Dec 2022
Tested : 09 Dec 2022
Diagnosed : 11 Dec 2022 - Don Baldridge

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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