



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Machine Id
VOLVO EC380E C380E311738
Component
Right Final Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

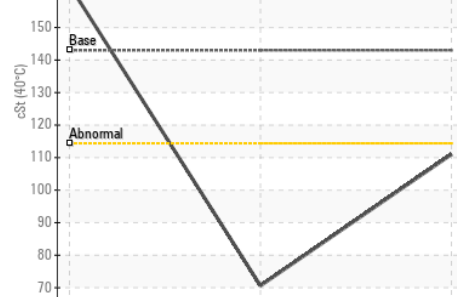
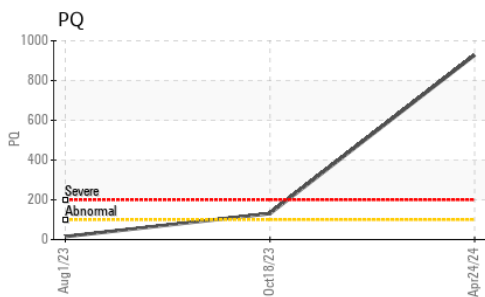
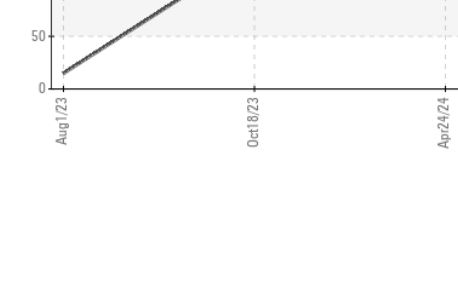
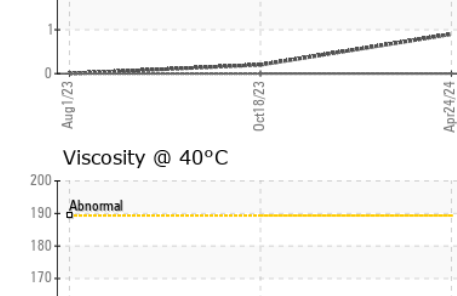
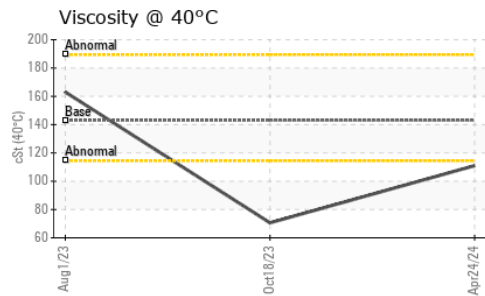
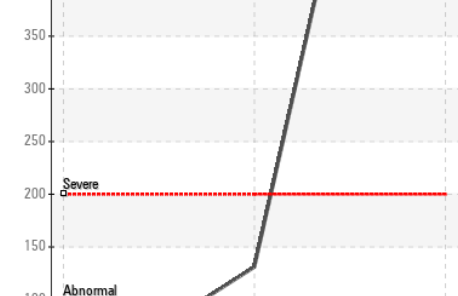
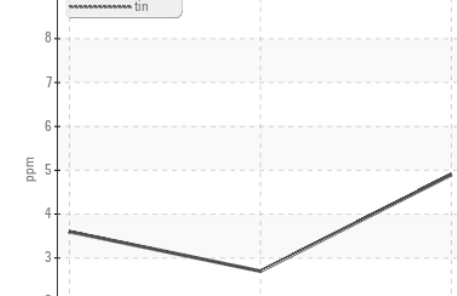
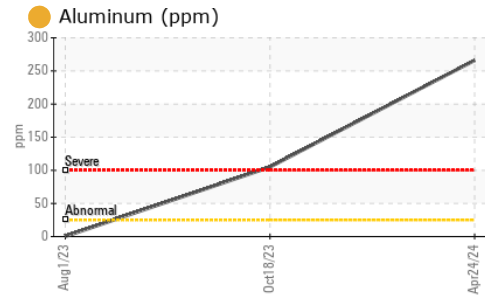
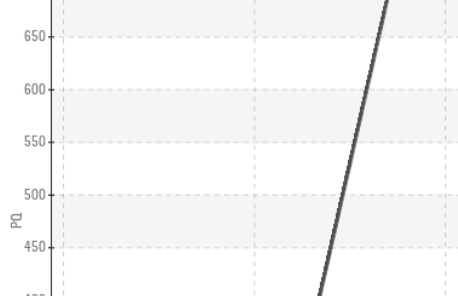
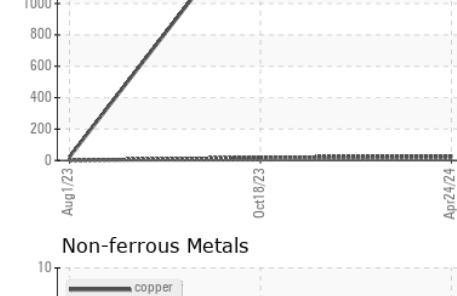
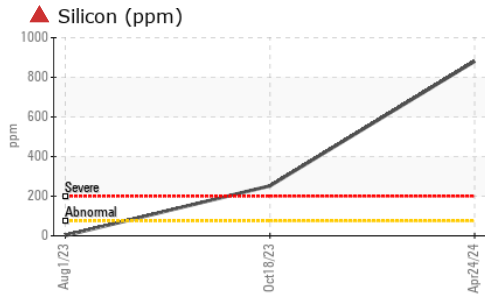
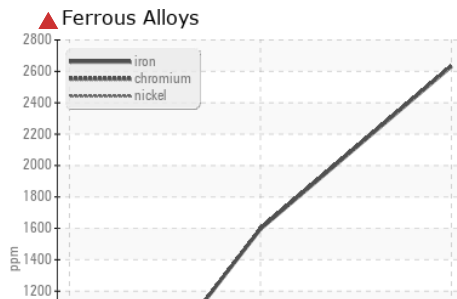
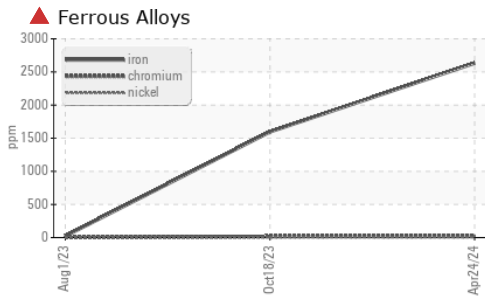
CONTAMINATION

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		JR0205836	JR0188878	JR0178901
Sample Date		Client Info		24 Apr 2024	18 Oct 2023	01 Aug 2023
Machine Age	hrs	Client Info		6637	6129	5661
Oil Age	hrs	Client Info		508	5661	5661
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		N/A	Changed	Not Changd
Sample Status				SEVERE	SEVERE	NORMAL
PQ		ASTM D8184		928	131	15
Iron	ppm	ASTM D5185m	>500	▲ 2632	▲ 1595	22
Chromium	ppm	ASTM D5185m	>10	▲ 28	▲ 18	0
Nickel	ppm	ASTM D5185m	>10	3	1	0
Titanium	ppm	ASTM D5185m		15	5	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	● 266	● 105	<1
Lead	ppm	ASTM D5185m	>25	<1	<1	0
Copper	ppm	ASTM D5185m	>50	5	3	4
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 881	▲ 252	1
Potassium	ppm	ASTM D5185m	>20	34	16	2
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	>170	9	1	3
Boron	ppm	ASTM D5185m	400	99	171	15
Barium	ppm	ASTM D5185m	200	2	1	0
Molybdenum	ppm	ASTM D5185m	12	4	2	3
Manganese	ppm	ASTM D5185m		20	12	<1
Magnesium	ppm	ASTM D5185m	12	26	10	3
Calcium	ppm	ASTM D5185m	150	57	16	1
Phosphorus	ppm	ASTM D5185m	1650	943	1799	1855
Zinc	ppm	ASTM D5185m	125	16	8	12
Sulfur	ppm	ASTM D5185m	22500	32292	29820	25056
Visc @ 40°C	cSt	ASTM D445	143	111	● 70.6	163



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0205836 **Received** : 26 Apr 2024
Lab Number : 06161734 **Tested** : 28 Apr 2024
Unique Number : 10997157 **Diagnosed** : 29 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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 US 28269
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 F: (704)596-6198

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)