WEAR CONTAMINATION FLUID CONDITION

NORMAL
ABNORMAL
ATTENTION

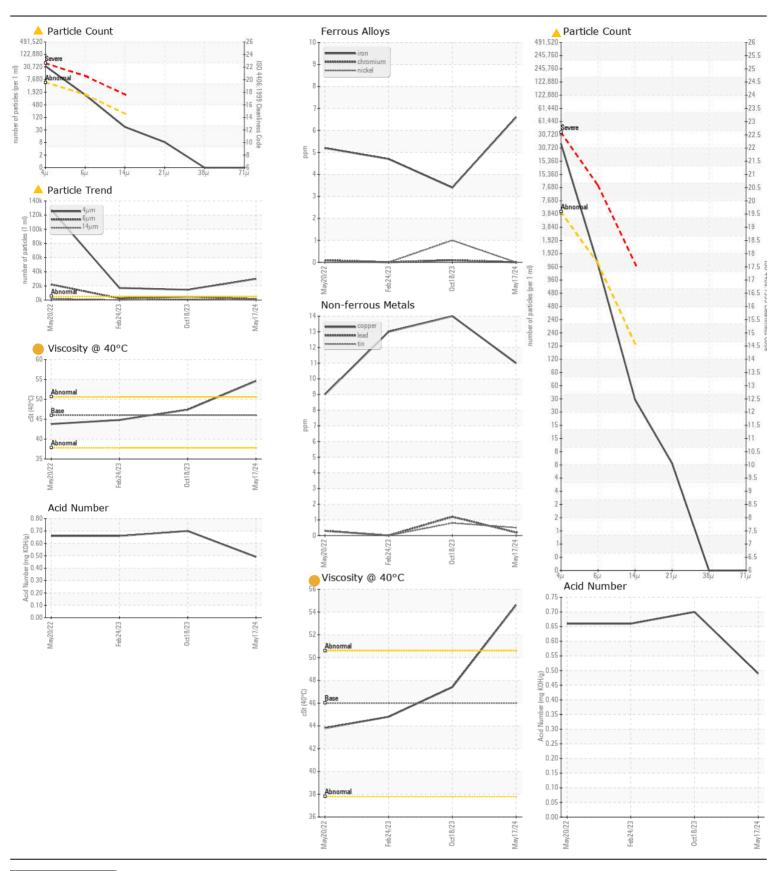
[716015]

## 314865 VOLVO EC380EL 314865

Hydraulic System

Fluid

PECOMMENDATION  Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP416499	VCP429393	VCP39332
	Sample Date		Client Info		17 May 2024	18 Oct 2023	24 Feb 2023
	Machine Age	hrs	Client Info		3875	2919	1792
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>20	7	3	5
WEAIT	Chromium	ppm	ASTM D5185m		0	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	1	0
	Titanium	ppm	ASTM D5185m	7.0	0	0	0
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>10	0	<1	0
	Lead	ppm	ASTM D5185m		<1	1	0
	Copper	ppm	ASTM D5185m		11	14	13
	Tin	ppm	ASTM D5185m		<1	<1	0
	Vanadium	ppm	ASTM D5185m	7.0	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
OONIT A BRIDLA TIONI	0:1:		AOTM DEADE		• • • • • • • • • • • • • • • • • • • •	4	
CONTAMINATION	Silicon	ppm	ASTM D5185m		2	4	5
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		0	2	0
	Water		WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		<u>^</u> 29886	14506	17062
	Particles >6µm		ASTM D7647		1259	4773	2291
	Particles >14µm		ASTM D7647		37	897	76
	Particles >21µm		ASTM D7647		7	363	11
	Particles >38µm		ASTM D7647		0	18	1
	Particles >71µm		ASTM D7647		0	2	0
	Oil Cleanliness		ISO 4406 (c)		<u>A 22/17/12</u>	21/19/17	21/18/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris Cond/Dist	scalar	*Visual	NONE	NONE NONE	NONE NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NORML	NORML	NORM
	Appearance Odor	scalar scalar	*Visual	NORML NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	<1
The oil viscosity is higher than normal. The AN level is acceptable for this fluid.	Boron	ppm	ASTM D5185m		0	0	<1
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		2	0	1
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		7	10	7
	Calcium	ppm	ASTM D5185m	49	369	419	483
	Phosphorus	ppm	ASTM D5185m		438	524	544
	Zinc	ppm	ASTM D5185m		521	718	721
	Sulfur	ppm	ASTM D5185m	3719	1473	1762	1710
	Guilai				0	0=	
	Acid Number (AN) Visc @ 40°C	mg KOH/g	ASTM D8045 ASTM D445		0.49	0.70 47.4	0.66 44.8





Certificate L2367

Laboratory Sample No.

Lab Number : 06186075 Unique Number : 11042827 Test Package : MOB 2

: VCP416499

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 May 2024 **Tested** : 22 May 2024

: 23 May 2024 - Don Baldridge Diagnosed

TRADEMARK METALS RECYCLING - SUNSHINE

13200 CAIRO LN OPA LOCKA, FL US 33054 Contact: Service Manager

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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