



# VOLVO

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**TMR-Landstreet [715547]**  
Machine Id  
**562176 VOLVO EC380 314718**  
Component  
**Hydraulic System**  
Fluid  
**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP440340</b>	VCP454110	VCP430831
Sample Date		Client Info		<b>08 May 2024</b>	13 Feb 2024	01 Nov 2023
Machine Age	hrs	Client Info		<b>4523</b>	4040	3528
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Filter Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	<b>6</b>	4	5
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>150	<b>8</b>	4	8
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

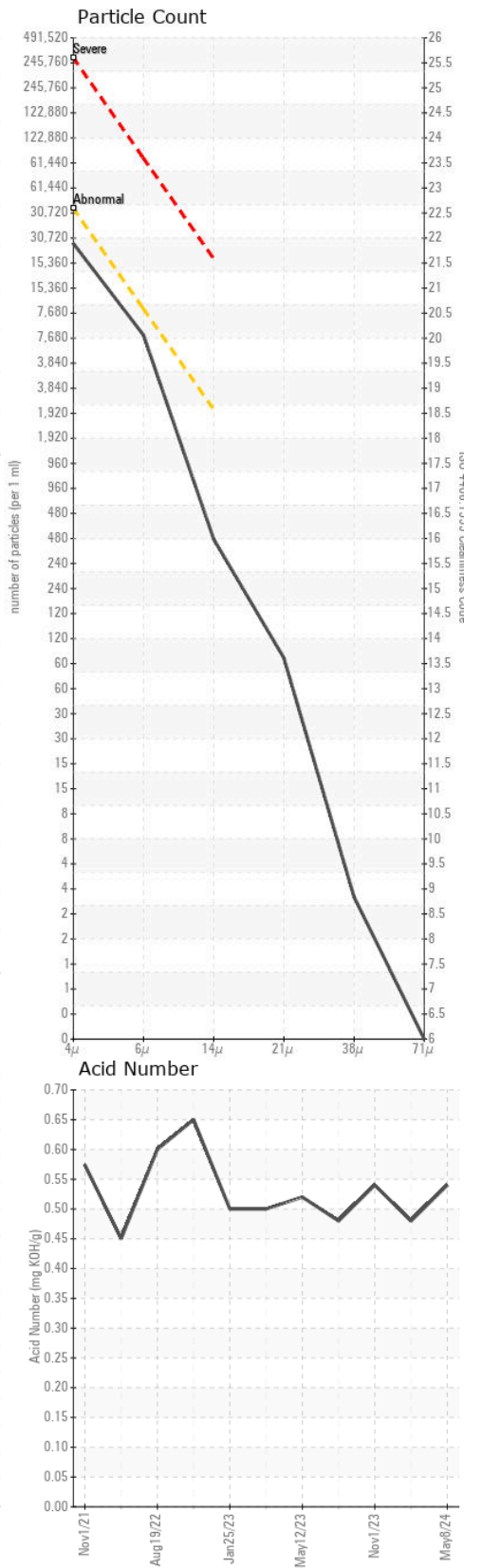
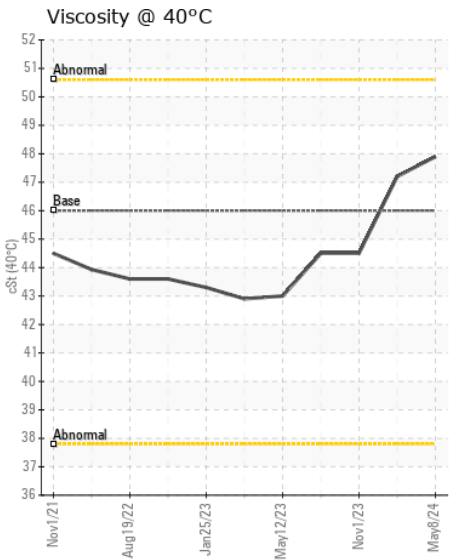
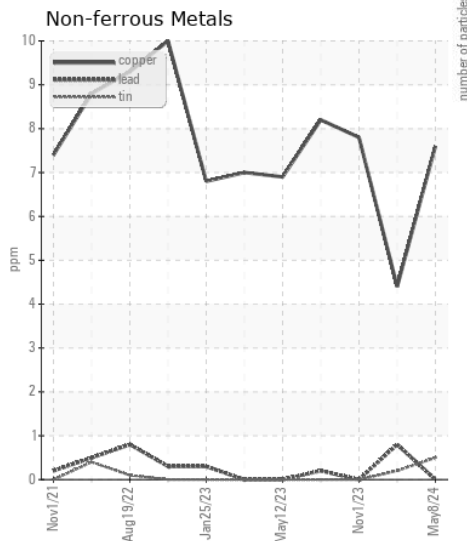
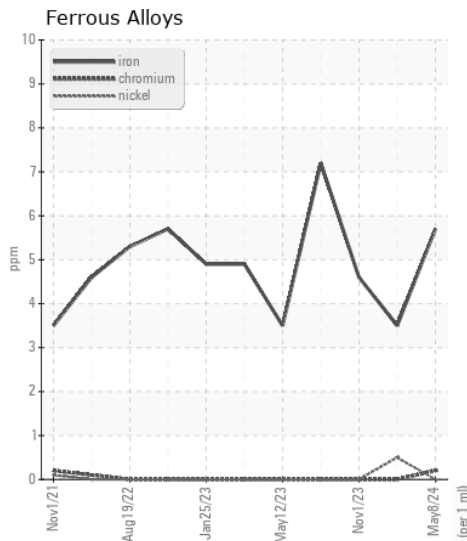
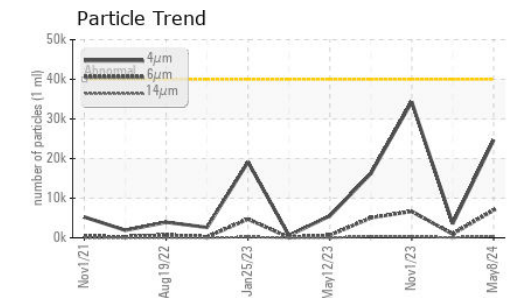
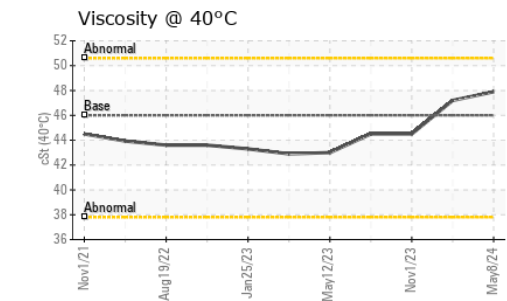
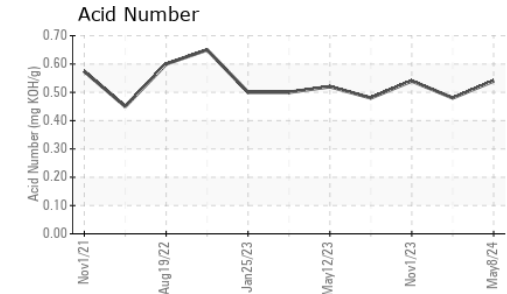
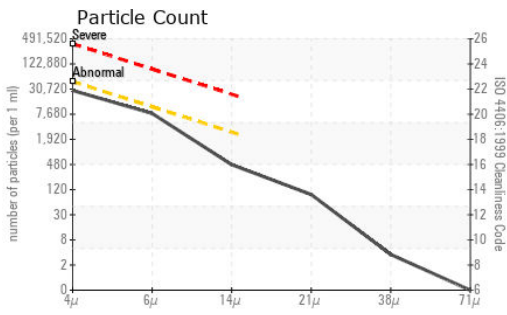
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>50	<b>2</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>40000	<b>24666</b>	3563	34300
Particles >6µm		ASTM D7647	>10000	<b>6965</b>	964	6658
Particles >14µm		ASTM D7647	>2500	<b>418</b>	80	290
Particles >21µm		ASTM D7647	>640	<b>81</b>	18	50
Particles >38µm		ASTM D7647	>160	<b>3</b>	1	1
Particles >71µm		ASTM D7647	>40	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>22/20/18	<b>22/20/16</b>	19/17/13	22/20/15
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	2	1
Boron	ppm	ASTM D5185m	14	<b>8</b>	7	1
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.0	<b>6</b>	4	<1
Manganese	ppm	ASTM D5185m	0.0	<b>1</b>	<1	0
Magnesium	ppm	ASTM D5185m	2.6	<b>48</b>	48	3
Calcium	ppm	ASTM D5185m	49	<b>221</b>	202	110
Phosphorus	ppm	ASTM D5185m	354	<b>437</b>	421	377
Zinc	ppm	ASTM D5185m	419	<b>547</b>	533	465
Sulfur	ppm	ASTM D5185m	3719	<b>1994</b>	1722	1316
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.54</b>	0.48	0.54
Visc @ 40°C	cSt	ASTM D445	46	<b>47.9</b>	47.2	44.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP440340  
**Lab Number** : 06177066  
**Unique Number** : 11023119  
**Test Package** : MOB 2

**Received** : 13 May 2024  
**Tested** : 14 May 2024  
**Diagnosed** : 14 May 2024 - Wes Davis

**TRADEMARK METALS RECYCLING - ORLANDO - LANDSTREET**  
 51 EAST LANDSTREET ROAD  
 ORLANDO, FL  
 US 32824  
 Contact: RYAN BOWDEN

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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