



WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area  
**[HANSON HOLLY SPRINGS]**  
 Machine Id  
**VOLVO EC250 310460**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 46 (--- GAL)**

### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0002341	ASC0010081	ASC0008715
Sample Date		Client Info		18 Jun 2024	29 Apr 2024	26 Mar 2024
Machine Age	hrs	Client Info		4027	3841	3841
Oil Age	hrs	Client Info		2000	1000	2000
Filter Age	hrs	Client Info		2000	0	1000
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Changed
Sample Status				ATTENTION	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	0	6	16
Chromium	ppm	ASTM D5185m	>10	0	<1	3
Nickel	ppm	ASTM D5185m	>10	0	0	1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	3	9
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>150	0	8	23
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

### CONTAMINATION

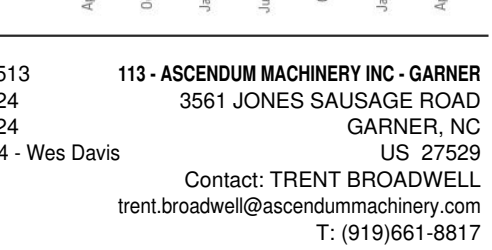
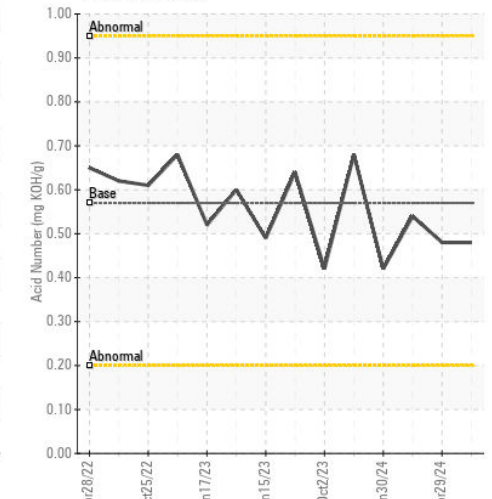
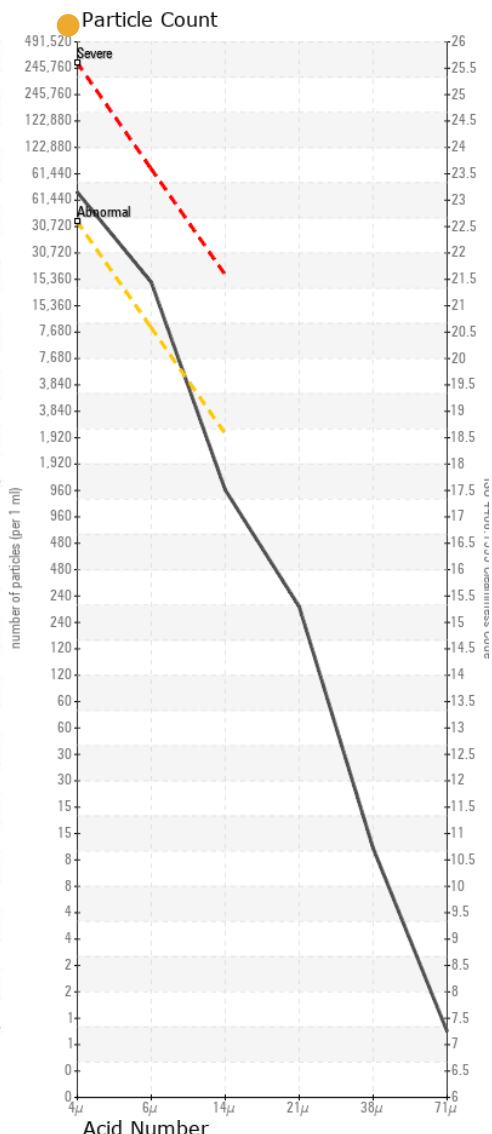
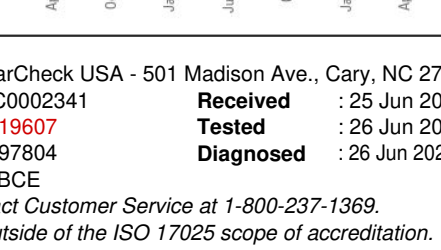
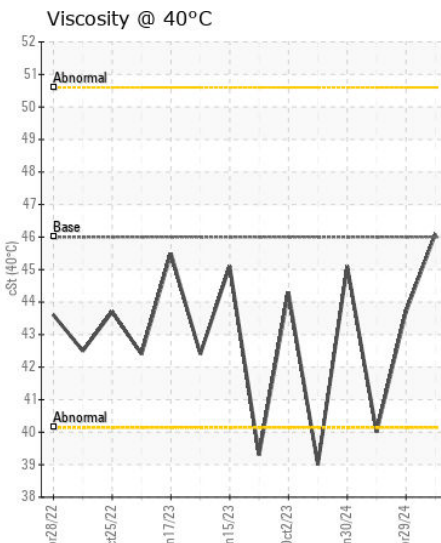
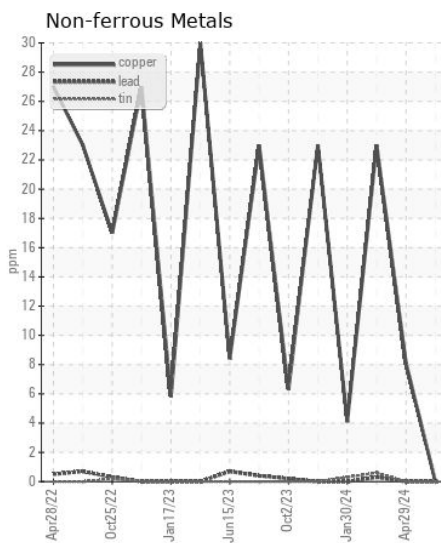
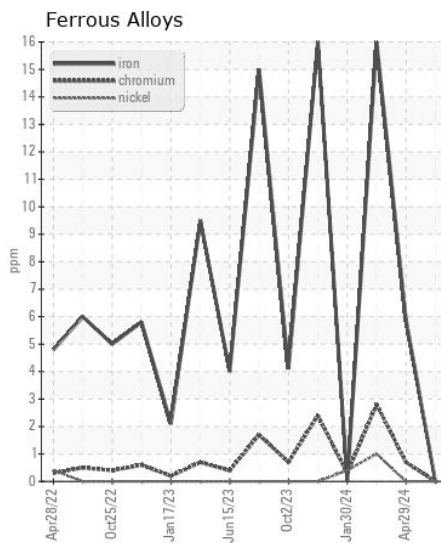
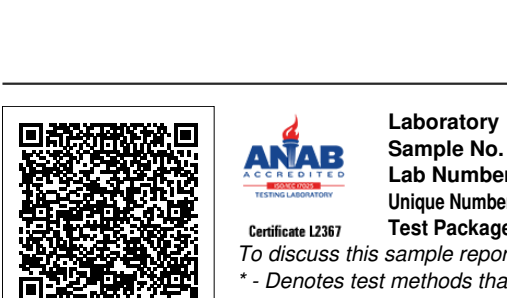
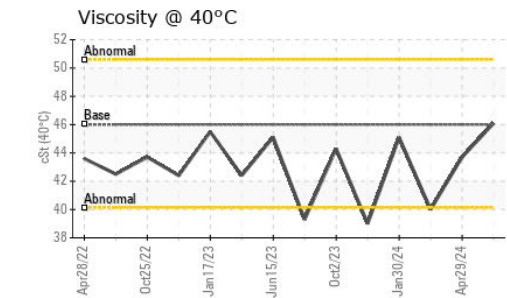
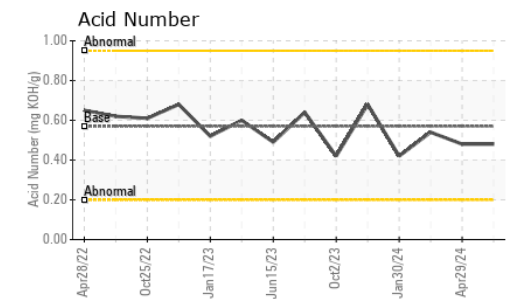
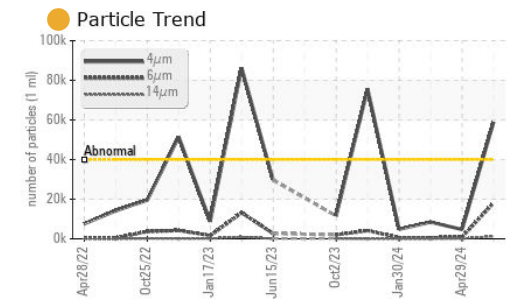
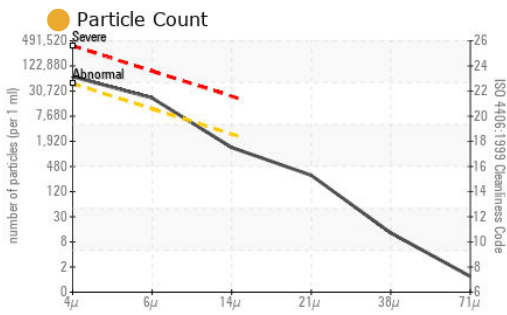
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>50	<1	6	18
Potassium	ppm	ASTM D5185m	>20	0	0	4
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>40000	58858	4685	8452
Particles >6µm		ASTM D7647	>10000	18143	812	519
Particles >14µm		ASTM D7647	>2500	1197	43	32
Particles >21µm		ASTM D7647	>640	260	9	8
Particles >38µm		ASTM D7647	>160	11	1	0
Particles >71µm		ASTM D7647	>40	1	0	0
Oil Cleanliness		ISO 4406 (c)	>22/20/18	23/21/17	19/17/13	20/16/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>0.1	NEG	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		1	<1	3
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	25	0	0	4
Calcium	ppm	ASTM D5185m	200	57	80	119
Phosphorus	ppm	ASTM D5185m	300	342	417	465
Zinc	ppm	ASTM D5185m	370	443	508	607
Sulfur	ppm	ASTM D5185m	2500	990	1238	1550
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.48	0.48	0.54
Visc @ 40°C	cSt	ASTM D445	46	46.1	43.7	40.0



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0002341  
**Lab Number** : 06219607  
**Unique Number** : 11097804  
**Test Package** : MOBCE

**113 - ASCENDUM MACHINERY INC - GARNER**  
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 GARNER, NC  
 US 27529  
 Contact: TRENT BROADWELL  
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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)