ASCENDUM

PROBLEM SUMMARY

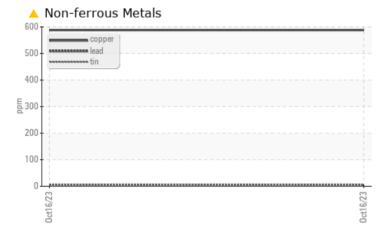
Sample Rating Trend WEAR

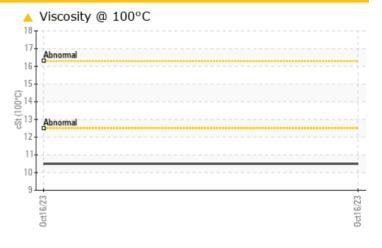
Area (11107337) Ascendum Machinery Machine Id VOLVO EC750E 391029 Component

Diesel Engine

VOLVO VDS-4.5 Premium Motor Oil 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC	ESIRE	50L15			
Sample Status				ABNORMAL	
Connor	0000	ACTM DE10Em	. 15	A 500	

Oumple Olulus				ADITOTIMAL		
Copper	ppm	ASTM D5185m	>15	<u> </u>	 	
Visc @ 100°C	cSt	ASTM D445		A 10.5	 	

Customer Id: TRICHANC Sample No.: ASC0000853 Lab Number: 05980959 Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Change Fluid			?	Oil and filter change at the time of sampling has been noted.	
Change Filter			?	Oil and filter change at the time of sampling has been noted.	

HISTORICAL DIAGNOSIS

ASCENDUM

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area (11107337) Ascendum Machinery Machine Id VOLVO EC750E 391029 Component

Diesel Engine

VOLVO VDS-4.5 Premium Motor Oil 15W40 (--- GAL)

Motor Oil 15W40 (-	GAL)			0ct2023		
SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ASC0000853		
Sample Date		Client Info		16 Oct 2023		
Machine Age	hrs	Client Info		487		
Oil Age	hrs	Client Info		487		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	16		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	3		
Lead	ppm	ASTM D5185m	>20	5		
Copper	ppm	ASTM D5185m	>15	588		
Tin	ppm	ASTM D5185m	>10	3		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		36		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		75		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		17		
Calcium	ppm	ASTM D5185m		2005		
Phosphorus	ppm	ASTM D5185m		830		
Zinc	ppm	ASTM D5185m		983		
Sulfur	ppm	ASTM D5185m		2947		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	31		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	7		
Fuel	%	ASTM D3524	>6.0	1.2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624		9.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3		
Base Number (BN)	mg KOH/g	ASTM D2896		5.1		

DIAGNOSIS

A Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

🔺 Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

Contamination

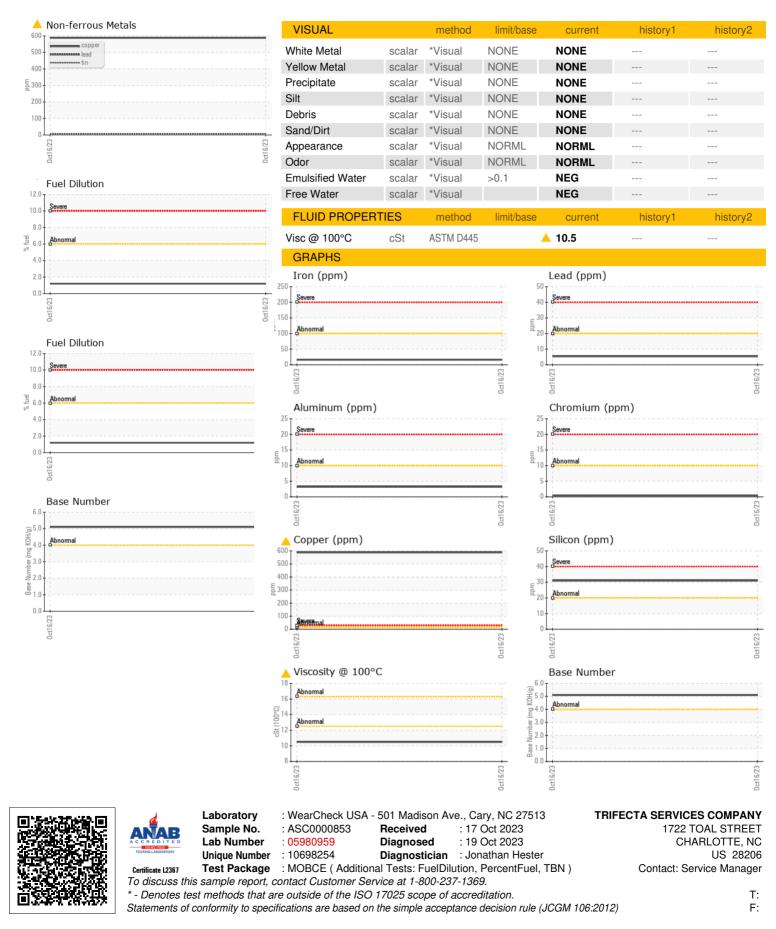
Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



OIL ANALYSIS REPORT



Submitted By: CHRISTOPHER CANIPE