WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL NORMAL NORMAL



Ascendum MAchinery VOLVO EC300E 317382

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		ASC0007939		
	Sample Date		Client Info		12 Apr 2024		
	Machine Age	hrs	Client Info		562		
	Oil Age	hrs	Client Info		562		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		12		
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.	Chromium	ppm	ASTM D5185m	>10	<1		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		6		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		△ 325		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	nnm	ASTM D5185m	> 20	14		
	Potassium	ppm	ASTM D5185m		13		
	Fuel	ррпп	WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	<i>></i> 0.1	NEG		
	Soot %	%	*ASTM D7844	~3	0.1		
	Nitration	Abs/cm	*ASTM D7624		9.5		
	Sulfation	Abs/.1mm	*ASTM D7415		21.6		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		54		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		81		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		229		
	Calcium	ppm	ASTM D5185m		2187		
	Phosphorus	ppm	ASTM D5185m		1206		
	Filospilolus	ppiii	710 1111 20 100111		00		
	Zinc Sulfur	ppm	ASTM D5185m		1356		

Oxidation

Visc @ 100°C cSt

18.4

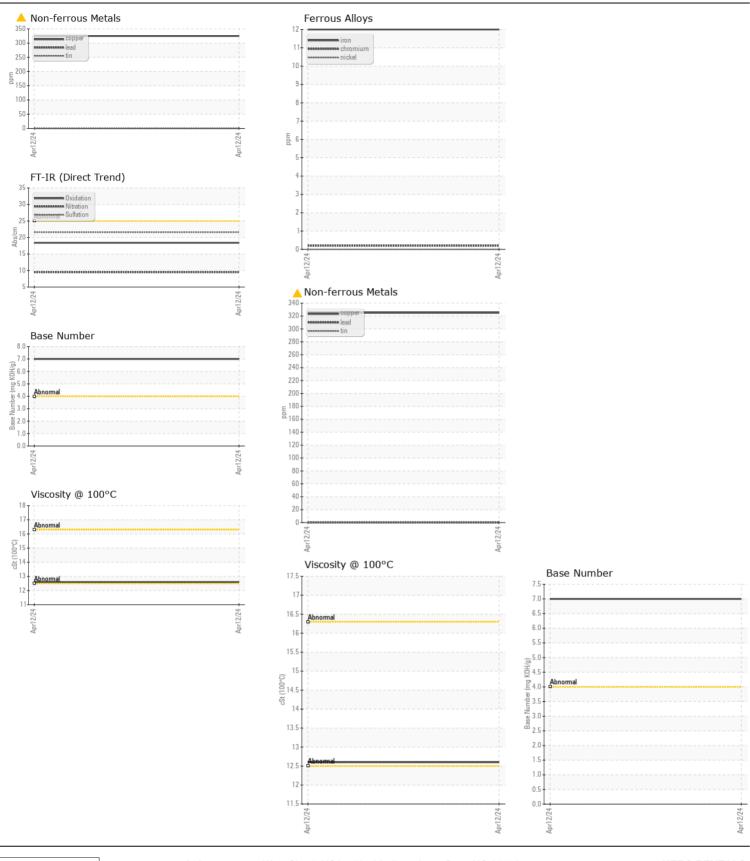
7.0

12.6

Abs/.1mm *ASTM D7414 >25

ASTM D445

Base Number (BN) mg KOH/g ASTM D2896







Laboratory

Sample No.

Lab Number : 06151776

: ASC0007939

Unique Number: 10981854

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 17 Apr 2024 : 18 Apr 2024

: 19 Apr 2024 - Don Baldridge

HERC RENTALS 27500 RIVERVIEW CENTER BLVD, SUITE 100

BONITA SPRINGS, FL US 34134 Contact: ALLAN AUTER

Test Package : CONST (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. allan.auter@hercrentals.com

Diagnosed

* - 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)

T: F: