WEAR CONTAMINATION FLUID CONDITION

ABNORMAL ATTENTION

Area

Ascendum Machinery VOLVO A30G 753663

Component
Diesel Engine

ECOMMENDATION	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		ASC0009680		
	Sample Date		Client Info		05 Jul 2024		
	Machine Age	hrs	Client Info		557		
	Oil Age	hrs	Client Info		557		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	المما		ACTM DE10Em	. 100	04		
/CAR	Iron	ppm	ASTM D5185m		21		
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 Nickel	ppm	ASTM D5185m ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>2	<1 0		
	Silver	ppm	ASTM D5185m	. 2	2		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		411		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m	/10	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
			Visuai				
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	52		
Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium	ppm	ASTM D5185m	>20	<1		
	Fuel	%	ASTM D3524	>6.0	0.3		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	9.5		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8		
	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	>0.2	NEG		
UID CONDITION	Sodium	ppm	ASTM D5185m		3		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		36		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		83		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		57		
	Calcium	ppm	ASTM D5185m		2304		
	Phosphorus	ppm	ASTM D5185m		1120		

Sulfur

Oxidation

Visc @ 100°C cSt

4866

14.7

5.8

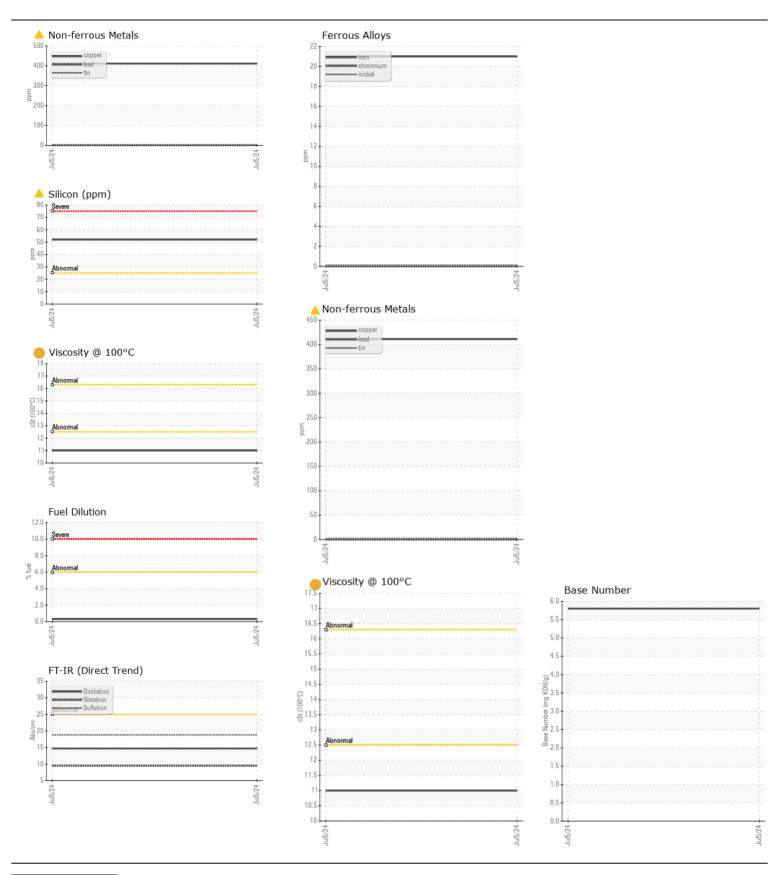
11.0

ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896

Abs/.1mm *ASTM D7414 >25

ASTM D445







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06232899

: ASC0009680

Received **Tested** Unique Number : 11116392

: 11 Jul 2024 : 12 Jul 2024 Diagnosed

: 13 Jul 2024 - Don Baldridge Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

WM WARR & SON 3800 SMITH FARM RD MATTHEWS, NC US 28104 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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