WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Ascendum Machinery/250 Hour CSA HITACHI ZX650LC-3 1767 (S/N 20066)

Component Diesel Engine

VOI VO VDS-4 5 Premium Motor Oil 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0001764		
	Sample Date		Client Info		08 Jan 2024		
	Machine Age	hrs	Client Info		12252		
	Oil Age	hrs	Client Info		12252		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	47		
	Chromium	ppm	ASTM D5185m	>20	<1		
Metal levels are typical for a components first oil change.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		1		
	Tin	ppm	ASTM D5185m		- <1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	13		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	5.7		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7		
	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		
LUID CONDITION	Sodium	ppm	ASTM D5185m		1		
EOID CONDITION	Boron	ppm	ASTM D5185m		49		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		3		
	Molybdenum	ppm	ASTM D5185m		46		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		635		
	Calcium	ppm	ASTM D5185m		1410		
	Phosphorus	ppm	ASTM D5185m		985		
	Zinc	ppm	ASTM D5185m		1120		
	Sulfur	ppm	ASTM D5185m		4252		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4		
	Base Number (BN)		ASTM D2896	/20	9.7		
	Dase Hulling (DIV)	my NOTI/	MOTIVI DE030		5.1		







Report Id: TRIBUR [WUSCAR] 06059137 (Generated: 01/12/2024 17:41:26) Rev: 1

Laboratory Sample No. Lab Number **Unique Number**

: ASC0001764 : 06059137 : 10830519

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 12 Jan 2024 Diagnosed : 12 Jan 2024

: Wes Davis Diagnostician

Test Package : MOBCE (Additional Tests: TBN)

* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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