WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

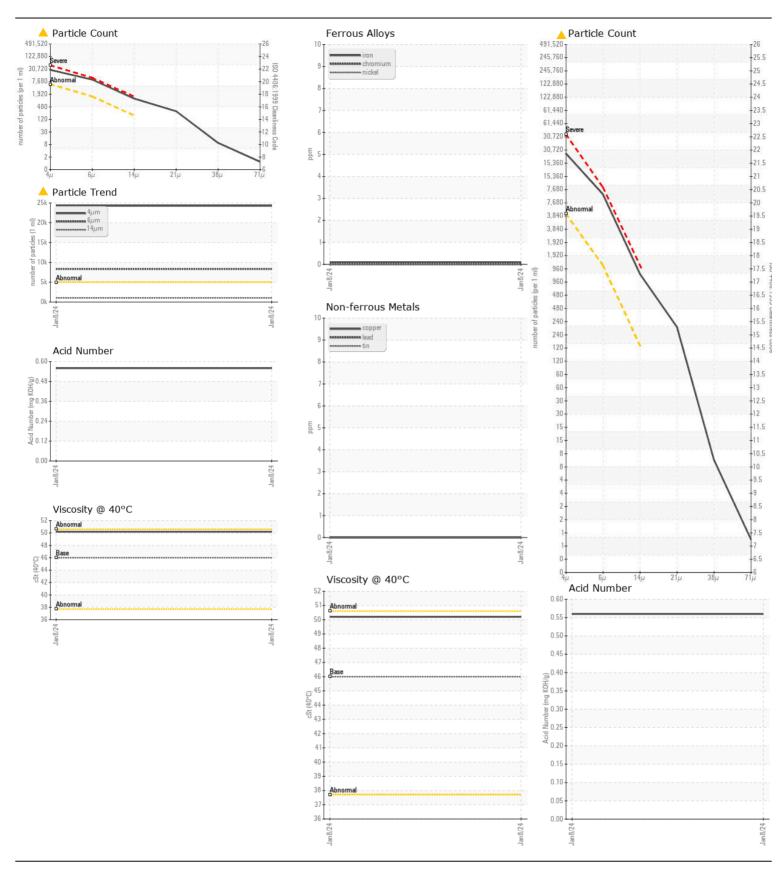
Aros

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

Component Hydraulic System

VÖLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.	Sample Number		Client Info		ASC0001760		
	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		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		<1		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		0		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		0		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Ciliaan		ACTM DE10E	00	4		
	Silicon	ppm	ASTM D5185m		4		
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		0		
	Water		WC Method		NEG		
	Particles >4µm		ASTM D7647		<u>^</u> 24277		
	Particles >6µm		ASTM D7647		A 8345		
	Particles >14µm		ASTM D7647		<u>▲</u> 1036		
	Particles >21µm		ASTM D7647		<u>^</u> 259		
	Particles >38µm		ASTM D7647		8		
	Particles >71µm		ASTM D7647		1		
	Oil Cleanliness Silt	o o o lo v	ISO 4406 (c) *Visual	>19/17/14	A 22/20/17		
		scalar		NONE	NONE		
	Debris Sand/Dirt	scalar	*Visual	NONE	LIGHT		
		scalar		NONE	NONE NORML		
	Appearance Odor	scalar scalar	*Visual *Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.1	NEG		
	Elliuisilleu vvalei	Scalai	VISUAI	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
	Boron	ppm	ASTM D5185m	14	32		
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		1		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		11		
	Calcium	ppm	ASTM D5185m		1076		
	Phosphorus	ppm	ASTM D5185m		582		
	Zinc	ppm	ASTM D5185m		752		
	Sulfur	ppm	ASTM D5185m		2490		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.56		
	Visc @ 40°C	cSt	ASTM D445	46	50.2		





Certificate L2367

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

: ASC0001760 : 06059243 : 10830625 Test Package : MOBCE

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 12 Jan 2024 Recieved Diagnosed : 15 Jan 2024 : Wes Davis Diagnostician

US 27216 Contact: KAREN HILLIARD khilliard@trianglegradingpaving.com T: (336)584-1745

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)

TRIANGLE GRADING AND PAVING INC

1521 Huffman Mill Rd

BURLINGTON, NC

F: (336)584-0145