

## **OIL ANALYSIS REPORT**

## Sample Rating Trend



Machine Id

# HITACHI HITACHI ZW220-SB

Front Differential

{not provided} (--- GAL)

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

				Jul2024		
				Jul2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0967064		
Sample Date		Client Info		17 Jul 2024		
Machine Age	hrs	Client Info		7689		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>500	176		
Chromium	ppm	ASTM D5185(m)	>10	1		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>25	1		
Lead	ppm	ASTM D5185(m)	>25	0		
Copper	ppm	ASTM D5185(m)	>100	<1		
Γin	ppm	ASTM D5185(m)	>10	0		
Antimony	ppm	ASTM D5185(m)	>5	0		
√anadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		2		
Magnesium	ppm	ASTM D5185(m)		7		
Calcium	ppm	ASTM D5185(m)		3276		
Phosphorus	ppm	ASTM D5185(m)		917		
Zinc	ppm	ASTM D5185(m)		1029		
Sulfur	ppm	ASTM D5185(m)		10314		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	7		
Sodium	ppm	ASTM D5185(m)		<1		
		AOTH DETOE( )		_		

ASTM D5185(m) >20

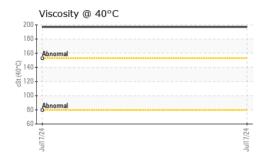
ppm

0

Potassium



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
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*	>.2	NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPERT	ΓIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		197		
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						
Iron (ppm)			150	Lead (ppm)		
Severe				Course		
Abnormal			E 100	Abnormal		
0			=======================================	) 📙		4
Jul17/24			Jul17/24	Jul17/24		Jul17/24
-			ゔ		\	F
Aluminum (ppm)			30	Chromium (p	рии <i>)</i> 	
100 Severe			E 20			
Abnormal				1		
0 74 7			724			124
Jul17/24			Jul17/24	Jul17/24		Jul17/24
Copper (ppm)				Silicon (ppm)		
300 Severe			300	Severe		
200 - Severe 100 - Abnormal			E 200	Abnormal		
0						
117/24			Jul17/24	117/24		117/24
∃ Viscosity @ 40°C			J.	⊰ Additives		η
200 T			- 4000	) T		
1307			틆 2000	calcium phosphoru		
Abnormal 50				STATES AND STATES		
7/24			Jul 17/24	7/24		7/24
=			5	=		=



CALA ISO 17025:2017 Accredited Laboratory

Laboratory

**Sample No.** : WC0967064 Lab Number : 02648741 Unique Number : 5814293

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: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Test Package : MOB 1

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Received : 18 Jul 2024 Tested : 18 Jul 2024 Diagnosed

: 19 Jul 2024 - Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131.

**DEWITT EQUIPMENT** 1793 LINE 13

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