

## Store 4 - Fairmont Machine Id HITACHI ZX250 1FFDCB70JDE430225 Component Hydraulic System

## HITACHI HYDRAULIC SUPER EX 46HN (63 GAL)

RECOMMENDATION
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Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.



All component wear rates are normal.

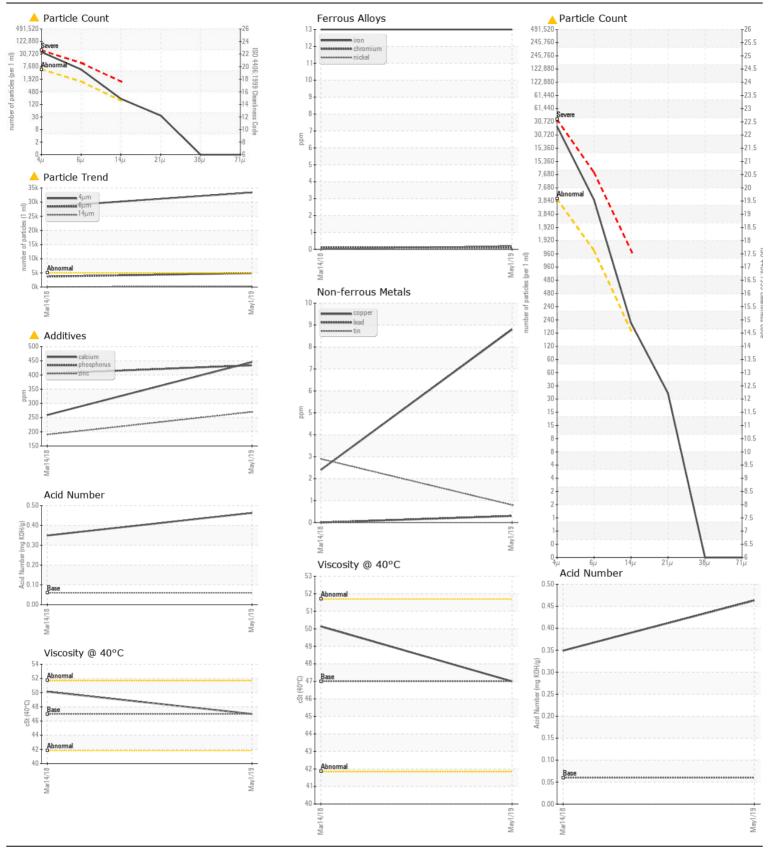
## CONTAMINATION

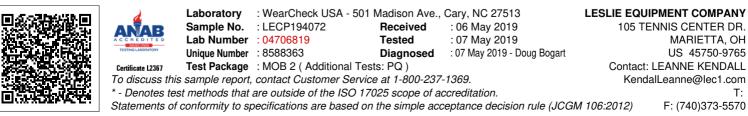
There is a high amount of particulates present in the oil.

## FLUID CONDITION

Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LECP194072	LECP177977	
Sample Date		Client Info		01 May 2019	14 Mar 2018	
Machine Age	hrs	Client Info		4281	3756	
Oil Age	hrs	Client Info		4281	0	
Filter Age	hrs	Client Info		4281	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Changed	Not Changd	
Sample Status				ABNORMAL	ABNORMAL	
PQ		ASTM D8184		18	14	
Iron	ppm	ASTM D5185m	>20	13	13	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m		<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	2	2	
Lead	ppm	ASTM D5185m	>10	<1	0	
Copper	ppm	ASTM D5185m	>75	9	2	
Tin	ppm	ASTM D5185m	>10	<1	3	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>20	2	3	
Potassium	ppm	ASTM D5185m	>20	<1	2	
Water		WC Method	>0.1	NEG	NEG	
Particles >4µm		ASTM D7647	>5000	<b>A</b> 33379	▲ 28394	
Particles >6µm		ASTM D7647	>1300	<b>4897</b>	🔺 3698	
Particles >14µm		ASTM D7647	>160	<b>A</b> 195	60	
Particles >21µm		ASTM D7647	>40	31	11	
Particles >38µm		ASTM D7647	>10	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 22/19/15	▲ 22/19/13	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Sodium	ppm	ASTM D5185m		2	2	
Boron	ppm	ASTM D5185m		23	23	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		6	5	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		31	32	
Calcium	ppm	ASTM D5185m		445	259	
Phosphorus	ppm	ASTM D5185m	827	434	405	
Zinc	ppm	ASTM D5185m	0	<b>4</b> 270	190	
Sulfur	ppm	ASTM D5185m	13	1318	800	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.463	0.349	
Visc @ 40°C	cSt	ASTM D445	47	47.0	50.13	





Contact/Location: STORE 9 - MARIETTA - LEANNE KENDALL - LESMAROH