



# OIL ANALYSIS REPORT

WEAR	<b>SEVERE</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

## Store 3 - Norton

Machine Id  
**HITACHI ZX250LC EX20 (S/N 1FFDCB70EEE430316)**

Component  
**Pump Drive**

Fluid  
**GEAR OIL SAE 90 (--- GAL)**

### RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049260	---	---
Sample Date		Client Info		19 Jun 2024	---	---
Machine Age	hrs	Client Info		8011	---	---
Oil Age	hrs	Client Info		500	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---

### WEAR

The iron level is severe. Gear wear is indicated.

PQ		ASTM D8184		109	---	---
Iron	ppm	ASTM D5185m	>500	▲ 1463	---	---
Chromium	ppm	ASTM D5185m	>15	11	---	---
Nickel	ppm	ASTM D5185m	>10	<1	---	---
Titanium	ppm	ASTM D5185m		2	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>20	13	---	---
Lead	ppm	ASTM D5185m		0	---	---
Copper	ppm	ASTM D5185m	>35	<1	---	---
Tin	ppm	ASTM D5185m	>4	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

### CONTAMINATION

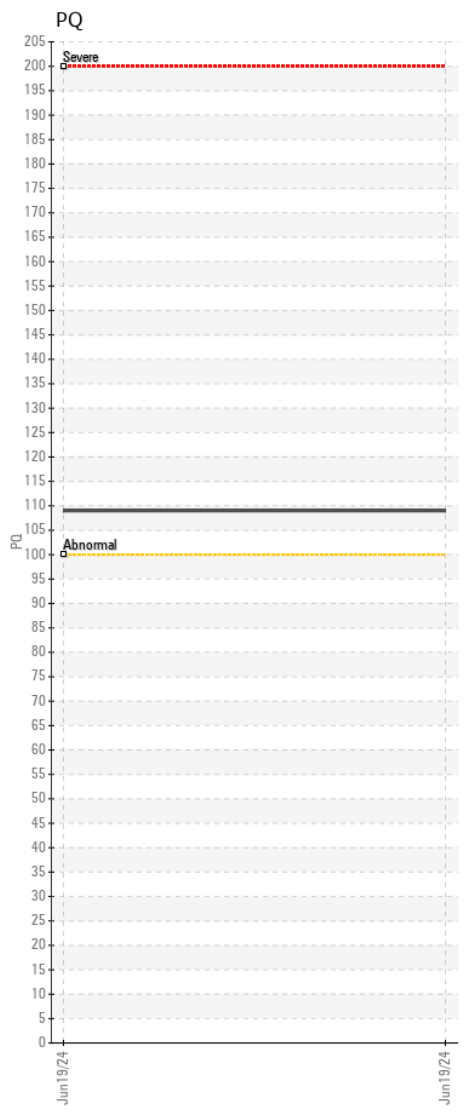
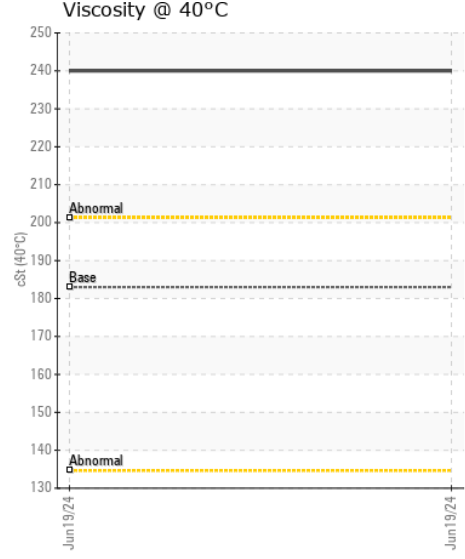
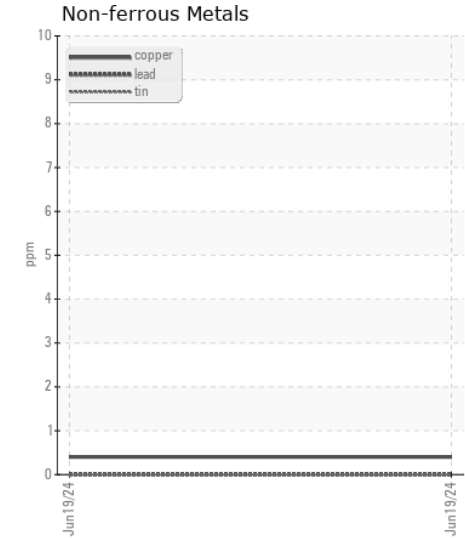
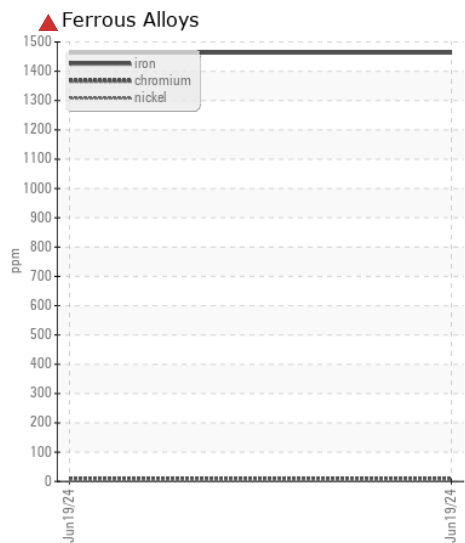
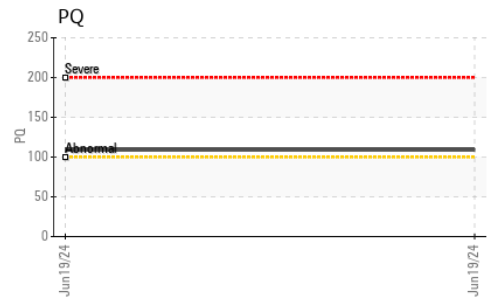
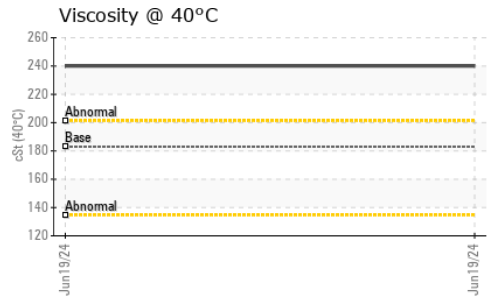
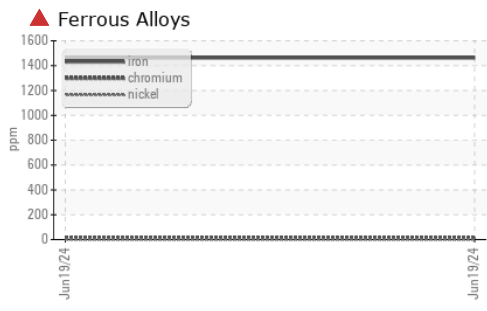
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	55	---	---
Potassium	ppm	ASTM D5185m	>20	3	---	---
Water		WC Method	>0.2	NEG	---	---
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	---	---

### FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m		3	---	---
Boron	ppm	ASTM D5185m	400	76	---	---
Barium	ppm	ASTM D5185m	200	0	---	---
Molybdenum	ppm	ASTM D5185m	12	5	---	---
Manganese	ppm	ASTM D5185m		14	---	---
Magnesium	ppm	ASTM D5185m	12	73	---	---
Calcium	ppm	ASTM D5185m	150	137	---	---
Phosphorus	ppm	ASTM D5185m	1650	1048	---	---
Zinc	ppm	ASTM D5185m	125	131	---	---
Sulfur	ppm	ASTM D5185m	22500	28139	---	---
Visc @ 40°C	cSt	ASTM D445	183	240	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0049260 **Received** : 03 Jul 2024  
**Lab Number** : 06227719 **Tested** : 05 Jul 2024  
**Unique Number** : 11111212 **Diagnosed** : 06 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**LANE PIPELINE**  
 2946 E MAIN ST  
 BRIDGEPORT, WV  
 US 26330

Contact: JESSE WILBURN  
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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)