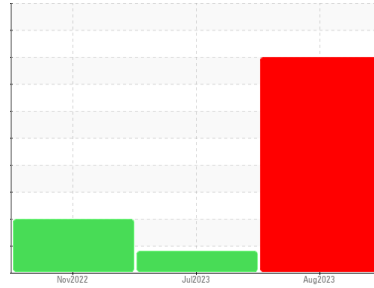


Machine Id  
**TB115**  
Component  
**Hydraulic System**  
Fluid  
**SHELL TELLUS 46 (--- LTR)**



**DIAGNOSIS**

- Recommendation**  
Several large wear particles were submitted for analysis.
- Wear**  
A representative wear particle was digested and analysed by ICP Spectroscopy. The most likely alloy match is Low alloy steel 13XX (13XX). The wear particle form is sliding/adhesion wear.
- Contamination**  
{not applicable}
- Fluid Condition**  
{not applicable}

**SAMPLE INFORMATION**

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC0077036</b>	PC0077044	PC0062003
Sample Date	Client Info	<b>27 Aug 2023</b>	28 Jul 2023	11 Nov 2022
Machine Age	hrs	<b>0</b>	1105	139
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	Not Changd
Sample Status		<b>SEVERE</b>	ATTENTION	ABNORMAL

**WEAR METALS**

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>10768</b>	---	---
Iron	ppm ASTM D5185(m) >20	<b>8333</b>	2	<1
Chromium	ppm ASTM D5185(m) >10	<b>6</b>	0	0
Nickel	ppm ASTM D5185(m) >10	<b>0</b>	0	0
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm ASTM D5185(m)	<b>&lt;1</b>	0	0
Aluminum	ppm ASTM D5185(m) >10	<b>2</b>	<1	<1
Lead	ppm ASTM D5185(m) >10	<b>&lt;1</b>	0	3
Copper	ppm ASTM D5185(m) >75	<b>1</b>	<1	<1
Tin	ppm ASTM D5185(m) >10	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0

**ADDITIVES**

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 0.0	<b>20</b>	<1	<1
Barium	ppm ASTM D5185(m) 0	<b>4</b>	0	0
Molybdenum	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m)	<b>99</b>	0	0
Magnesium	ppm ASTM D5185(m) 11	<b>3</b>	41	41
Calcium	ppm ASTM D5185(m) 35	<b>50</b>	20	20
Phosphorus	ppm ASTM D5185(m) 266	<b>---</b>	352	360
Zinc	ppm ASTM D5185(m) 276	<b>6</b>	311	303
Sulfur	ppm ASTM D5185(m) 1847	<b>85</b>	765	767
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

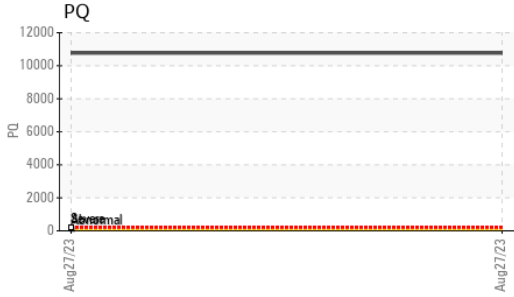
**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	<b>8</b>	<1	<1
Sodium	ppm ASTM D5185(m)	<b>101</b>	<1	<1
Potassium	ppm ASTM D5185(m) >20	<b>9</b>	<1	0

**VISUAL**

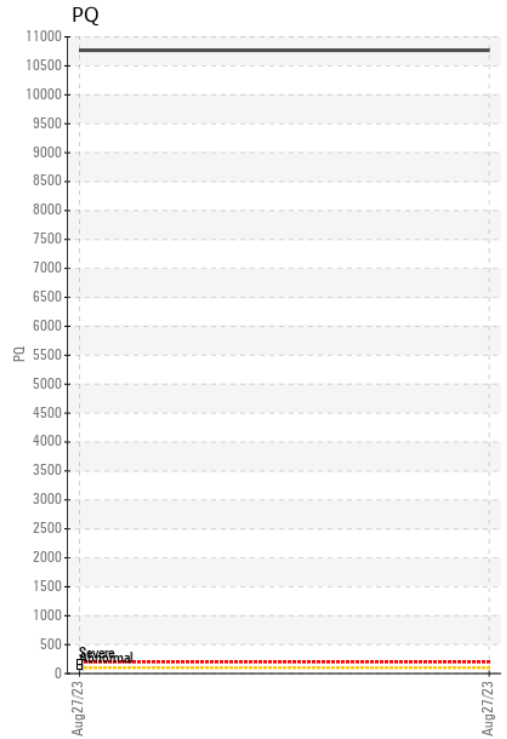
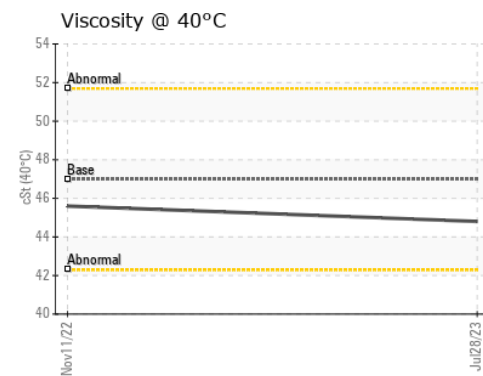
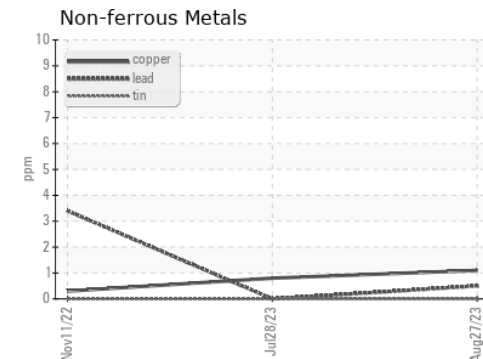
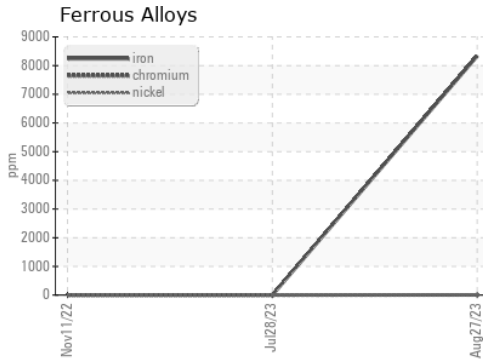
method	limit/base	current	history1	history2
White Metal	scalar Visual* NONE	<b>HEAVY</b>	NONE	NONE
Yellow Metal	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Silt	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Debris	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar Visual* NORML	<b>NORML</b>	NORML	NORML
Odor	scalar Visual* NORML	<b>NORML</b>	NORML	NORML

# OIL ANALYSIS REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter				no image	no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GPI) - 286 - Shoring & Foundations  
**Sample No.** : PC0077036 **Received** : 28 Aug 2023 151 Ram Forest Rd, Stouffville, ON CA L4A 2G8  
**Lab Number** : 02578938 **Diagnosed** : 01 Sep 2023  
**Unique Number** : 5631998 **Diagnostician** : Bill Quesnel  
**Test Package** : TEST ( Additional Tests: BottomAnalysis, FilterPatch, ICP, ICP-DIGEST, PQ ) Contact: Shannon Abbott sabbott@gipi.com

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