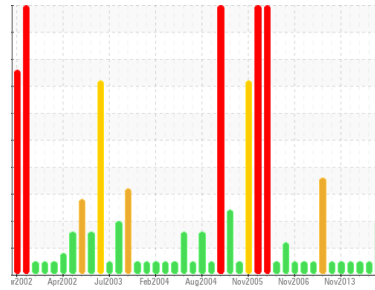




PROBLEM SUMMARY

Sample Rating Trend



WEAR



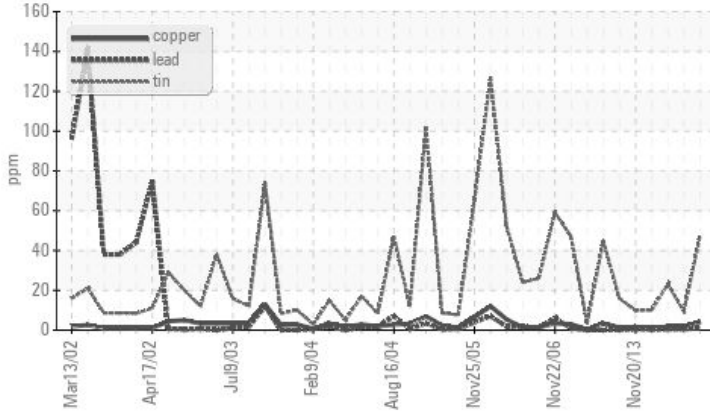
Machine Id
VIC-G1-THBR

Component
Bearing

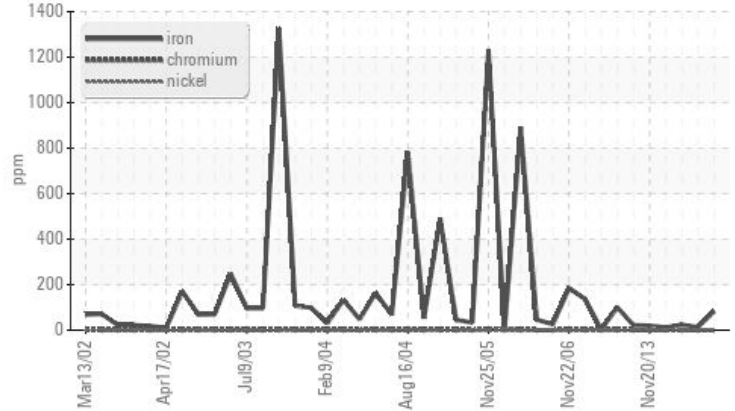
Fluid
ESSO TERESSO ISO 68 (2 LTR)

COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



▲ Ferrous Alloys



RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

| Sample Status | | | ABNORMAL | NORMAL | NORMAL |
|---------------|-----|-------------------|-----------------|--------|--------|
| Iron | ppm | ASTM D5185(m) >63 | ▲ 82 | 13 | 24 |
| Tin | ppm | ASTM D5185(m) >27 | ▲ 47 | 9 | 23 |
| Antimony | ppm | ASTM D5185(m) | ▲ 3 | <1 | 2 |

Customer Id: NEWSTJ
Sample No.: WC925379
Lab Number: 02049067
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

| Action | Status | Date | Done By | Description |
|--------------|--------|------|---------|---|
| Change Fluid | --- | --- | ? | We recommend that you drain the oil from the component if this has not already been done. |
| Resample | --- | --- | ? | We recommend an early resample to monitor this condition. |

HISTORICAL DIAGNOSIS

18 Jun 2015 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



01 Dec 2014 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



28 May 2014 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

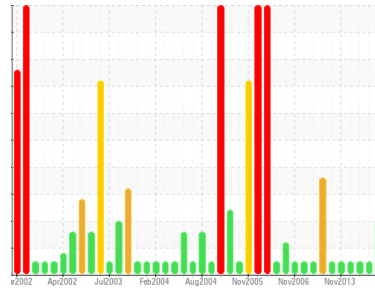
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
VIC-G1-THBR
 Component
Bearing
 Fluid
ESSO TERESSO ISO 68 (2 LTR)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

Iron and tin ppm levels are abnormal. Antimony ppm levels are noted. Bearing wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

Contamination

There is no indication of any contamination in the component.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC925379 | WC925450 | WC902953 |
| Sample Date | Client Info | | 25 Jan 2016 | 18 Jun 2015 | 01 Dec 2014 |
| Machine Age | days | Client Info | 0 | 0 | 0 |
| Oil Age | days | Client Info | 0 | 0 | 0 |
| Oil Changed | Client Info | | N/A | N/A | N/A |
| Sample Status | | | ABNORMAL | NORMAL | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|-------------|--------------------|--------------|----------|----------|
| PQ | ASTM D8184* | | 46 | 12 | 17 |
| Iron | ppm | ASTM D5185(m) >63 | ▲ 82 | 13 | 24 |
| Chromium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) >2 | <1 | 0 | <1 |
| Lead | ppm | ASTM D5185(m) >161 | 1 | <1 | <1 |
| Copper | ppm | ASTM D5185(m) >13 | 4 | 2 | 2 |
| Tin | ppm | ASTM D5185(m) >27 | ▲ 47 | 9 | 23 |
| Antimony | ppm | ASTM D5185(m) | ▲ 3 | <1 | 2 |
| Vanadium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | 0 | <1 | <1 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|--------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) 4.5 | 0 | 0 | <1 |
| Barium | ppm | ASTM D5185(m) 0.4 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) 0 | 0 | 0 | 0 |
| Calcium | ppm | ASTM D5185(m) 0 | 0 | <1 | <1 |
| Phosphorus | ppm | ASTM D5185(m) 0.7 | <1 | 1 | 2 |
| Zinc | ppm | ASTM D5185(m) 0 | 13 | 10 | 8 |
| Sulfur | ppm | ASTM D5185(m) 1315 | 1667 | 1813 | 1678 |
| Lithium | ppm | ASTM D5185(m) | <1 | <1 | <1 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >12 | <1 | 0 | <1 |
| Sodium | ppm | ASTM D5185(m) | <1 | 2 | <1 |
| Potassium | ppm | ASTM D5185(m) >20 | 0 | 0 | <1 |

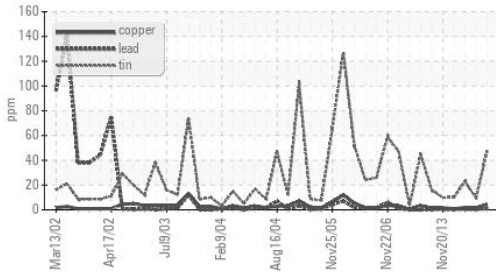
FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974* 0.02 | 0.13 | 0.127 | 0.114 |

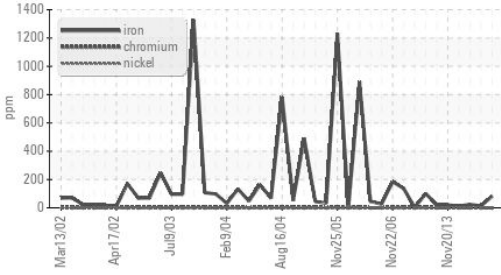


OIL ANALYSIS REPORT

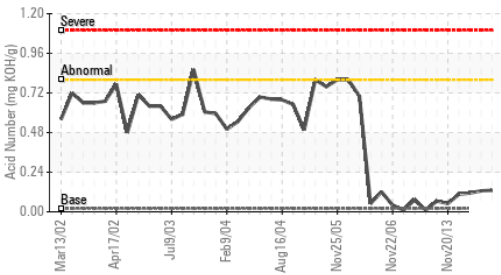
Non-ferrous Metals



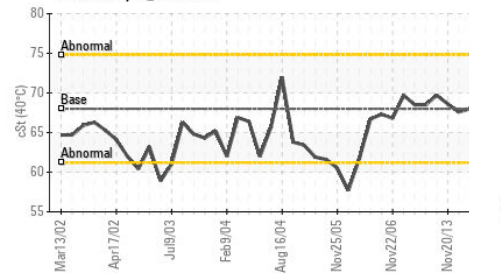
Ferrous Alloys



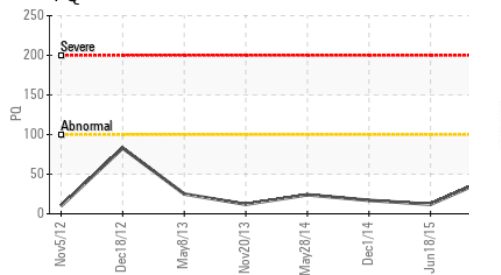
Acid Number



Viscosity @ 40°C



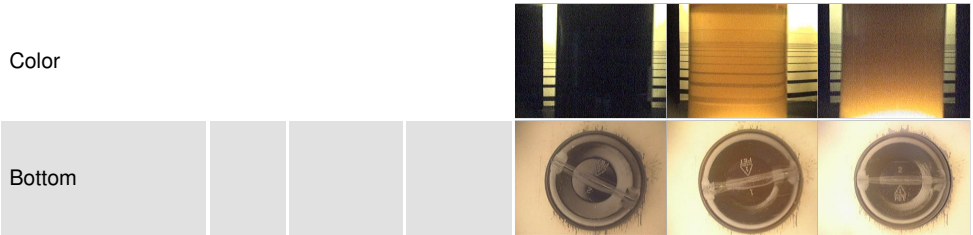
PQ



| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE | NONE |
| Silt | scalar | Visual* | NONE | VLITE | NONE |
| Debris | scalar | Visual* | NONE | VLITE | VLITE |
| 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 |
| Free Water | scalar | Visual* | | NEG | NEG |

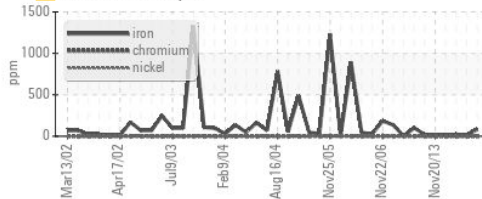
| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 68 | 68.0 | 68.0 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|

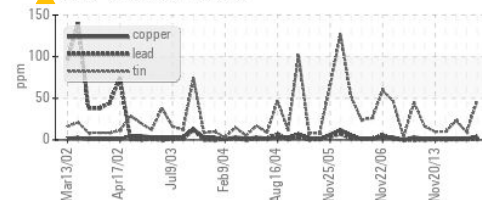


GRAPHS

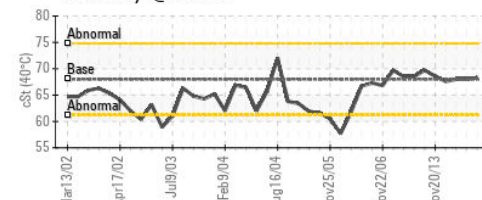
Ferrous Alloys



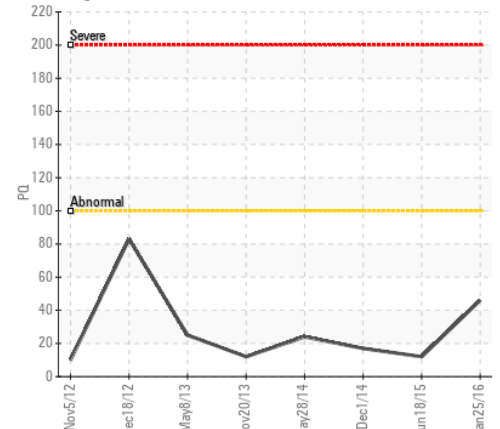
Non-ferrous Metals



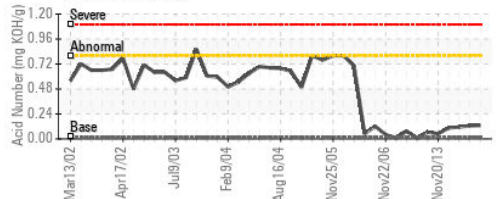
Viscosity @ 40°C



PQ



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC925379
Lab Number : 02049067
Unique Number : 4251370
Test Package : IND 2

Received : 26 Jan 2016
Diagnosed : 27 Jan 2016
Diagnostician : Kevin Marson

NEWFOUNDLAND POWER INC.
 50 DUFFY PLACE, PO BOX 8910
 ST. JOHNS, NL
 CA A1B 3P6
 Contact: Paul Martin
 pmartin@newfoundlandpower.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.

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