## Account Information
- **Account Number:** OILANA-1128-0000
- **Company Name:** CHES CAIN
- **Contact:**
  - **Address:** 1312 SNYDER CIRCLE
  - **City:** SIOUX FALLS, SD 57106 US
- **Phone Number:** 605-361-4075

## Component Information
- **Component ID:** 57
- **Secondary ID:** BMK 23-EABP90
- **Component Type:** UNLEADED GASOLINE ENGINE
- **Manufacturer:** STUDEBAKER
- **Model:** 4.7L
- **Application:** UNKNOWN
- **Sump Capacity:** 0

## Sample Information
- **Tracking Number:** 11085Y00080
- **Lab Number:** I-193411
- **Lab Location:** Indianapolis
- **Data Analyst:** KMS
- **Sampled:** 10-Jun-2011
- **Received:** 16-Jun-2011
- **Completed:** 20-Jun-2011

## Filter Information
- **Filter Type:** BYPASS
- **Micron Rating:** 15

## Miscellaneous Information
- **Product Manufacturer:** CASTROL
- **Product Name:** GTX
- **Viscosity Grade:** SAE 10W40 SUGGEST monitoring OIL PRESSURE closely between samples; LEAD is at a SEVERE LEVEL and may be OVERLAY METAL from MAIN/ROD BEARINGS; or, if leaded gasoline is being used in this unit, lead at this level may not be significant. If so, disregard the flag for lead; Silicon is at a MODERATE LEVEL; SILICON sources can be abrasives (dirt, Alumina Silica), seals and gasket material, lube additive or lube supplement, and/or environmental contaminant; Action: Sample information has been added or tests have been rerun or additional testing was added and the report has been regenerated;

## Wear Metals (ppm)

<table>
<thead>
<tr>
<th>Sample #</th>
<th>Iron</th>
<th>Chromium</th>
<th>Nickel</th>
<th>Aluminum</th>
<th>Copper</th>
<th>Lead</th>
<th>Tin</th>
<th>Cadmium</th>
<th>Silver</th>
<th>Vanadium</th>
<th>Silicon</th>
<th>Sodium</th>
<th>Potassium</th>
<th>Titanium</th>
<th>Molybdenum</th>
<th>Antimony</th>
<th>Manganese</th>
<th>Lithium</th>
<th>Boron</th>
<th>Magnesium</th>
<th>Calcium</th>
<th>Barium</th>
<th>Phosphorous</th>
<th>Zinc</th>
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<tbody>
<tr>
<td>1</td>
<td>26</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>11</td>
<td>310</td>
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<td>13</td>
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<td>2431</td>
<td>8</td>
<td>791</td>
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</table>

## Contaminant Metals (ppm)

## Multi-Source Metals (ppm)

## Additive Metals (ppm)

## Sample Information

<table>
<thead>
<tr>
<th>Sample #</th>
<th>Date Sampled</th>
<th>Date Received</th>
<th>Lube Time</th>
<th>Lube Change</th>
<th>Lube Added</th>
<th>Filter Change</th>
<th>Fuel Dilution</th>
<th>Soot</th>
<th>Water</th>
<th>Viscosity 40°C</th>
<th>Viscosity 100°C</th>
<th>Acid Number</th>
<th>Base Number</th>
<th>Oxidation</th>
<th>Nitration</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>10-Jun-2011</td>
<td>16-Jun-2011</td>
<td>300</td>
<td>MONT</td>
<td>No</td>
<td>No</td>
<td>&lt;1 - Estimate</td>
<td>&lt;1</td>
<td>&lt;1.1 - FTIR</td>
<td>12.6</td>
<td>6.92</td>
<td>12</td>
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</table>

## Particle Count (particles/mL)

<table>
<thead>
<tr>
<th>Sample #</th>
<th>ISO Code Based On 4/6/14</th>
<th>&gt; 4 µm</th>
<th>&gt; 6 µm</th>
<th>&gt; 10 µm</th>
<th>&gt; 14 µm</th>
<th>&gt; 21 µm</th>
<th>&gt; 38 µm</th>
<th>&gt; 70 µm</th>
<th>&gt; 100 µm</th>
<th>Test Method</th>
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<tbody>
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<td>1</td>
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