

# LABORATORY ANALYSIS



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**SPIRE**  
14905 SINKS RD.  
FLORRISANT, MO  
United States 63034  
Contact: Service Manager

Equipment No. **COMPRESSOR #2 OIL (00017)**  
System **Unknown Component**  
Oil Type **CITGO PACEMAKER 1240 (--- GAL)**

T:  
F:

## DIAGNOSIS

We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Copper (Cu) ppm levels are marginal. All other component wear rates are normal. There is no indication of any contamination in the sample. The condition of the sample is acceptable for the time in service.

## SAMPLE INFORMATION

Lab Number	New	<b>2311-00103</b>	---	---
Date of Sample	(Typical)	<b>03 Nov 2023</b>	---	---
Oil Added		<b>UNK</b>	---	---
Last Drain Date		<b>--</b>	---	---
Last Filter Service		<b>--</b>	---	---
Sample Point		<b>---</b>	---	---
Sample Status		<b>MARGINAL</b>	---	---

## VISCOSITY @ 100F OR 40C (ASTM D-445)

SSU Vis. @ 100F	SSU	<b>709.7</b>	---	---
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## % WATER - KARL FISCHER (ASTM E203)

% Water (KF)	%	<b>0.067</b>	---	---
ppm Water (KF)	ppm	<b>670</b>	---	---

## ICP - OILS (REPORTED IN PARTS PER MILLION)

Aluminum (Al)	ppm	<b>&lt;5</b>	---	---
Antimony (Sb)	ppm	<b>&lt;5</b>	---	---
Cadmium (Cd)	ppm	<b>&lt;5</b>	---	---
Chromium (Cr)	ppm	<b>&lt;5</b>	---	---
Cobalt (Co)	ppm	<b>&lt;5</b>	---	---
Copper (Cu)	ppm	<b>▲ 12</b>	---	---
Iron (Fe)	ppm	<b>25</b>	---	---
Lead (Pb)	ppm	<b>12</b>	---	---
Manganese (Mn)	ppm	<b>&lt;5</b>	---	---
Molybdenum(Mo)	ppm	<b>&lt;5</b>	---	---
Nickel (Ni)	ppm	<b>&lt;5</b>	---	---
Silver (Ag)	ppm	<b>&lt;5</b>	---	---
Tin (Sn)	ppm	<b>6</b>	---	---
Titanium (Ti)	ppm	<b>&lt;5</b>	---	---
Vanadium (V)	ppm	<b>&lt;5</b>	---	---
Barium (Ba)	ppm	<b>&lt;5</b>	---	---
Boron (B)	ppm	<b>&lt;5</b>	---	---
Calcium (Ca)	ppm	<b>1,320</b>	---	---
Magnesium (Mg)	ppm	<b>26</b>	---	---
Phosphorus(P)	ppm	500 <b>■ 329</b>	---	---
Silicon (Si)	ppm	<b>&lt;5</b>	---	---
Zinc (Zn)	ppm	<b>404</b>	---	---
Sulfur (S)	ppm	<b>1,840</b>	---	---

Customer Id: ENC0134J01  
Sample No.: EN23110103  
Lab Number: 23110103  
Test Package: TEST



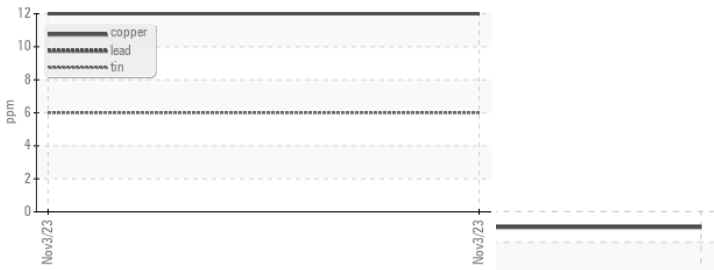
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To discuss the diagnosis or test data:  
Tracy Weaks +1 (314)872-9540  
[tweaks@englube.com](mailto:tweaks@englube.com)

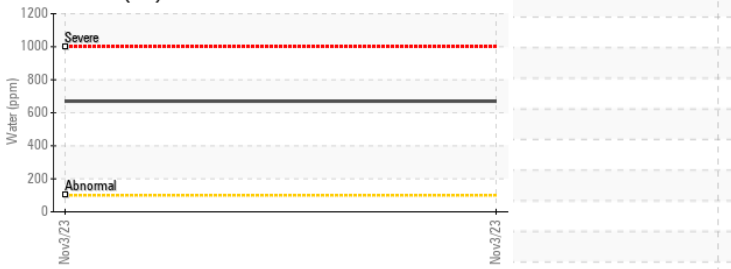
To change component or sample information:  
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# OIL ANALYSIS REPORT

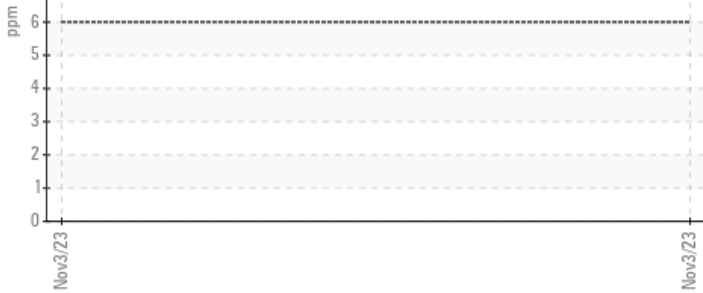
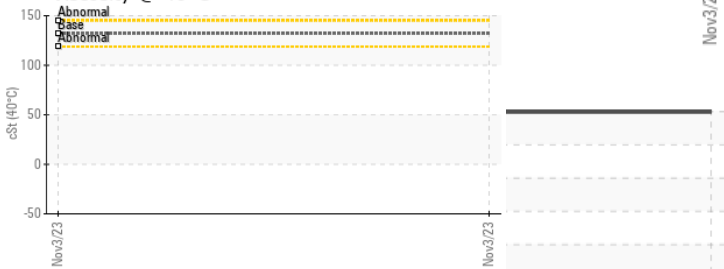
### ▲ Non-ferrous Metals



### Water (KF)



### Viscosity @ 40°C



### Viscosity @ 40°C

