

# LABORATORY ANALYSIS



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**EGS MEXICO S DE RL DE CV**  
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Department **AZUL**  
Equipment No. **1011.9 (00014)**  
System **Hydraulic System**  
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

## DIAGNOSIS

We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Zinc (Zn) ppm levels are severely low. cSt Vis. @ 40C is severely high. Viscosity of sample indicates oil is within ISO 68 range, advise investigate.

## SAMPLE INFORMATION

Lab Number	New	<b>2312-00022</b>	---	---
Date of Sample	(Typical)	<b>13 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>SEVERE</b>	---	---

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

SSU Vis. @ 100F	SSU	<b>387.6</b>	---	---
cSt Vis. @ 40C	cSt	32.0	<b>74.58</b>	---

## COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	<b>RED</b>	---	---
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## PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	<b>20/18/13</b>	---	---
4 Micron & Larger	particles/ml	>5000	<b>7,759</b>	---	---
6 Micron & Larger	particles/ml	>2500	<b>1,514</b>	---	---
14 Micron & Larger	particles/ml	>160	<b>74</b>	---	---
21 Micron & Larger	particles/ml	>40	<b>19</b>	---	---
38 Micron & Larger	particles/ml	>10	<b>2</b>	---	---
70 Micron & Larger	particles/ml	>3	<b>1</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>&lt;5</b>	---	---
Iron (Fe)	ppm	<b>&lt;5</b>	---	---
Lead (Pb)	ppm	<b>&lt;5</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>&lt;5</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>12</b>	---	---
Magnesium (Mg)	ppm	<b>&lt;5</b>	---	---
Phosphorus(P)	ppm	<b>296</b>	---	---
Silicon (Si)	ppm	<b>&lt;5</b>	---	---
Zinc (Zn)	ppm	668	<b>137</b>	---
Sulfur (S)	ppm	<b>654</b>	---	---

Customer Id: ENC0005J03  
Sample No.: EN23120022  
Lab Number: 23120022  
Test Package: TEST



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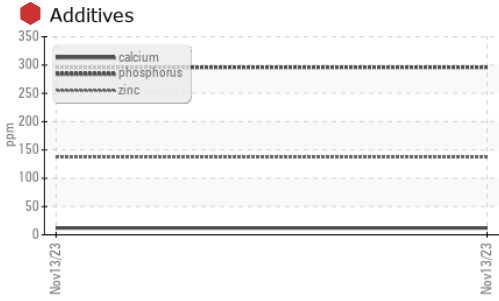
To discuss the diagnosis or test data:

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# OIL ANALYSIS REPORT



### DR FERROGRAPHY READINGS

L		<span style="color: green;">■</span> <b>11.5</b>	---	---
S		<span style="color: green;">■</span> <b>2.8</b>	---	---
WPC	DL + DS	<span style="color: green;">■</span> <b>14.3</b>	---	---

### CONTAMINATION

Water	>0.05	<b>NEG</b>	---	---
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