CJCTM Application Study

Cone Crusher - Lubrication System

CUSTOMER
Mine: Minera El Tesoro - Sierra Gorda - Antofagasta (Chile)

THE SYSTEM
Cone crusher H6000. Make: Svedala. Main lubrication system. Tank 250 l. Oil ISO VG 150

THE PROBLEM
The new generation of Svedala equipment demand the highest oil cleanliness levels. The machinery is placed outside in very dusty environment resulting in high contamination with especially silicon particles

THE SOLUTION
CJCTM Fine Filter, HDU 27/54 P.
Dirt holding capacity: 8 litres each. Filtering level: 3 micron abs. Filter material: Cellulose. Pump: 600 l/h.

THE RESULT
The operation test of the CJCTM Fine Filter in crusher #2 showed, after 6 hours of filtration an ISO cleanliness class 15/12/9. At the same time sampling was made after the filter to check the equipment efficiency in one pass and amazing code ISO 13/10/7 was seen.

Maintenance Manager Renato Salvo Ravioly was very satisfied with these results and has further installed CJC oil Care Equipment on app. 20 other oil systems

THE ANALYSIS

<table>
<thead>
<tr>
<th></th>
<th>2 micron</th>
<th>5 micron</th>
<th>15 micron</th>
<th>ISO</th>
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</thead>
<tbody>
<tr>
<td>Before</td>
<td>191730</td>
<td>26760</td>
<td>1550</td>
<td>18/15/11</td>
</tr>
<tr>
<td>2 Hours</td>
<td>82510</td>
<td>23960</td>
<td>1790</td>
<td>17/15/11</td>
</tr>
<tr>
<td>4 Hours</td>
<td>17020</td>
<td>3130</td>
<td>360</td>
<td>15/12/9</td>
</tr>
<tr>
<td>6 Hours</td>
<td>20330</td>
<td>3540</td>
<td>1170</td>
<td>15/12/9</td>
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<tr>
<td>1 Pass</td>
<td>4550</td>
<td>850</td>
<td>340</td>
<td>13/10/7</td>
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COMMENTS

Maintenance Manager Renato Salvo Ravioly
"Looking at the satisfying results and bearing in mind the firm support of the supplier, we highly recommend the purchase of these units to be used for crushing and piling lines (Racho) or where ever necessary". The supplier has clearly shown the benefits of installation of these filters. Their technology is used not only in the mining field, but in many other areas.