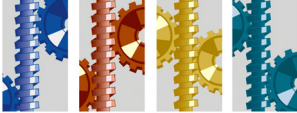




C.C.JENSEN

OIL FILTRATION SYSTEM



INDUSTRY

Application Study written by:
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Equimar S.A. (Chile)
in cooperation with
Kim Kjær, C. C. Jensen A/S (DK)

CJC™ Application Study

Copper Stripping Machine - Hydraulic System

CUSTOMER

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

THE SYSTEM

Copper Stripping Machine. Brand:
Wenmec. Hydraulic System. Oil
Volume; 3200 litres. Oil ISO VG 46.

THE PROBLEM

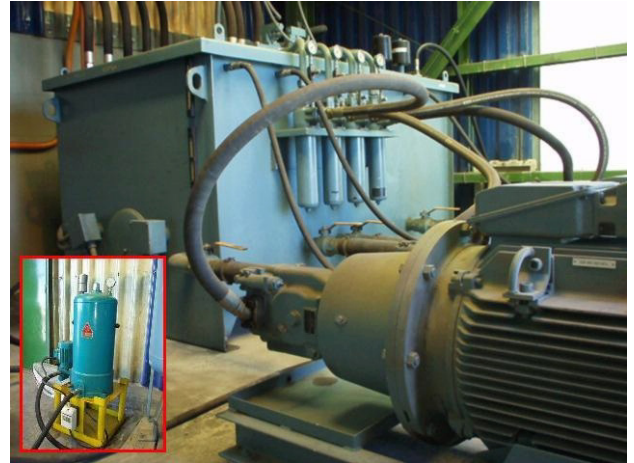
Wenmec is recommending the max. contamination level in the hydraulic system to be ISO 14/11. Higher contamination severely reduces lifetime of hydraulic components and oil and it is well known that 80% of all failures in hydraulic systems are due to contamination of the oil. The contamination seen in sample no. 1 will have a dramatic effect on the reliability of the hydraulic system. A stripping machine operates as most other oil systems in mines 24 hours a day and the stoppage time directly relates to lost production and hereby extremely high cost.

THE SOLUTION

CJC™ Fine Filter HDU 27/54 P. The Dirt holding capacity is 8 litres. The filtration degree is 3 micron abs. The material of the filter element is cellulose. The pump capacity is 600 ltr./h.

THE RESULT

After only 2 months of operation the cleanliness level is well below what is recommended by the equipment manufacturer Wenmec. With the achieved level it is predicted to result in a 8-10 times extended lifetime of system components and oil.



Stripping machine. Wenmec. Minera El Tesoro (Chile)

THE ANALYSIS

Dates	26.02.02	1 pass.	after 24 h.	17.04.02
Particles >2µm	2,647,300	2,689,200	132,900	4,500
Particles >5µm	82,800	49,500	2,300	1,810
Particles >15µm	6,500	22,000	800	280
ISO 4406 Code	22/17/13	22/15/12	18/12/10	13/11/8

COMMENTS

The Inspector Carlos Baez :

"Like we also experienced in our crusher lubrication system the results of the CJC Fine Filters are brilliant".



C.C.JENSEN

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