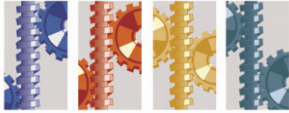




OIL FILTRATION SYSTEMS

CJC™ Application Study

Hydraulic Oil - Copper Stripping Machine



INDUSTRY

*Application Study
written by:*

*Marcelo González L.
C.C.Jensen Chile, S.L.*

*In cooperation with:
Kim Kjær
C.C.Jensen A/S
Denmark*

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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

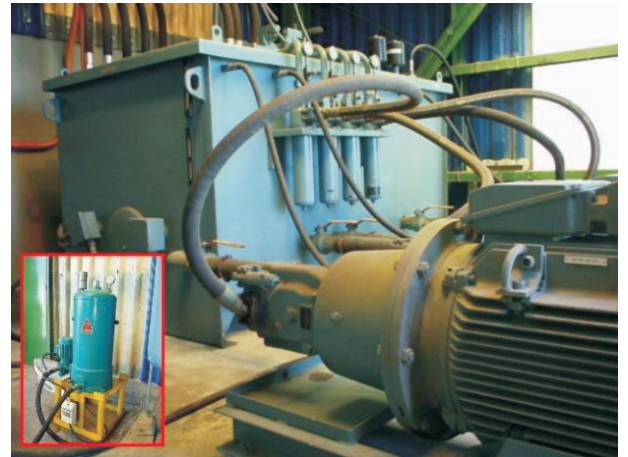
Wenmec recommends the maximum contamination level in the hydraulic system to be ISO 14/11. Higher contamination severely reduces lifetime of hydraulic components and oil and it is well known that 80% of all failures in hydraulic systems are due to contamination of the oil. The contamination seen in sample 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 at extremely high costs.

THE SOLUTION

CJC™ FineFilter 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 RESULT

	2-5 µm	5-15 µm	15-25 µm	25-50 µm	50-100 µm	>100 µm	ISO
Lab. Ingelube - 26.02.02 *):							
Used oil:	25,645	763	49	15	1	0	22/17/13
New oil:	26,397	473	10	10	2	0	22/15/12
In run:	1,306	15	4	4	0	0	18/12/10
	2 µm	5 µm	15 µm	25 µm	50 µm	100 µm	ISO
Lab. El Tesoro - 17.04.02 **):							
In run:	4,550	1,530	220	50	10	0	13/11/8

*) Measure in 1 ml. (Multiply x 100)

***) Measure in 100 ml.

COMMENTS

The Inspector Carlos Baez:

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

