
The success of technical co-operation of Liebherr-France SAS, Mining Division with Abraservice and Industeel.



The Liebherr's R 9800 hydraulic shovel has won the 2010 award for the best mining equipment in the category of " Surface Mining, Capital Equipment " awarded by " Mining Magazine ".

Since 2004 we have been pleased and proud to play a part in the evolution of the performance of Liebherr's mining shovel.

Our collaboration has once again borne fruit, in fact:

Liebherr's R 9800 hydraulic shovel has won the 2010 award for the best mining equipment in the category of " Surface Mining, Capital Equipment " awarded by " Mining Magazine ".

Our contribution to this success was the supply of a full set of wear resistant parts made in **CREUSABRO® 8000®**. This excellent wear resistant grade offers increased wear life and the opportunity to reduce bucket weight (th) which has always been desired in the field of huge mining bulky extraction.

" In this case **CREUSABRO® 8000®** was not chosen based on its wear resistant performance but due to the possibility of reducing weight without affecting the bucket life.

- Bucket capacity 47,5 m³ total weight 43 700 kg.
- Normal weight for a bucket made with 500 & 400 HB (water quenched) 2691 kg, **Weight of anti-abrasion set of parts (mainly CREUSABRO® 8000® + small quantity CREUSABRO® 4800®) → 2153 kg in addition to the higher wear resistance of the grade.**
- Saved weight is approximately 538 kg which is equal to 300 litres of additional volume handled with each bucket shot.
- Production gain calculation / work cycle.

Bucket loading-unloading work cycle, every 30 seconds Taking into account a minimum machine availability of 90 % Working hours / day (23 hours operational / 1 hour for maintenance) → 21 hours That means a production gain / day of 756 m³ and then 23 thousand m³ / month.

In this application **CREUSABRO® 8000®** can be considered as a contributing factor of the improvement of use of the hydraulic shovel ".



The integrity of the bucket is maintained again underlining the excellence of a top wear resistant grade such as **CREUSABRO® 8000®**.

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