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Malaga Branch.

Report on the trial carried out in the 34.2 Extruder Gearbox using MILITECH-1, a synthetic metal based conditioner

4th February 2004

The following is a report / record of the operational characteristics of our Extruder before and after the introduction of MILETEC-1 into the extruder gearbox. These recordings have been taken while producing the same product and under normal operations.

DATE	29 Mixer Amps	34.1 Mixer Amps	34.2 Extruder Amps	Clay Column Hardness
19/11/03	102	100	470	2.3
20/11/03	102	100	480	2.3
21/11/03	102	100	490	2.3
22/11/03	102	100	480	2.2
23/11/03	100	90	420	2.3
24/11/03	101	110	486	2.4
25/11/03	100	110	440	2.5
26/11/03	103	100	472	2.5
27/11/03	102	100	470	2.5
28/11/03	102	110	486	2.3

MILITEC-1 was introduced to the gearbox on the 9th December 2003

DATE	29 Mixer Amps	34.1 Mixer Amps	34.2 Extruder Amps	Clay Column Hardness
7/1/04	102	100	390	2.2
8/1/04	102	100	330	2.1
9/1/04	100	100	410	2.4
10/1/04	101	90	406	2.2
11/1/04	102	80	410	2.5
12/1/04	95	80	334	2
13/1/04	100	80	380	2.3
14/1/04	102	100	442	2.2
15/1/04	100	90	370	2.3
16/1/04	101	100	393	2.2
17/1/04	106	120	344	2.3
18/1/04	100	80	426	2.2
19/1/04	97	100	334	2.2
20/1/04	100	105	360	2.4
21/1/04	100	98	380	2.4

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On the gearbox is a separate oil pump / cooler which only runs when the temperature of the box gets to 50°C. Normal running temperature of the gearbox would range from 45°C to 55°C depending on the ambient temperatures. Since the introduction of MILITEC-1 this oil cooler unit has only started up on very hot days. It must be noted that I have requested our electrical department to set this unit to run continuously during the hotter months.

Temperatures taken today are as follows -Ambient Temp = 36°C

Gearbox Temp = 45°C

Summary of Power Cost Saving.

Average high amps (Before MILITEC) = 470 amps

Average low amps (After MILITEC) = 380 amps

Difference between high and low 90 amps = 51 K w / hr

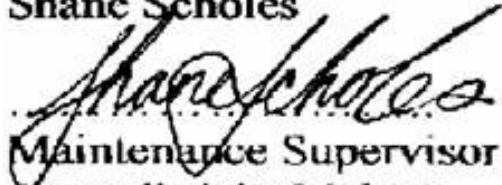
Assuming 12 hours of Extruder operation per day 365 days per year, Cost Saving \$ 4.00/ hr

Annually ~ \$17.500

I am pleased with the results of this trial and am keen to continue introducing MILITECH-1 into other large gearboxes within our operating plant.

Your assistance with quoting on the supply of MILITEC-1 for the above would be much appreciated.

Shane Scholes



Maintenance Supervisor
Australbricks Malaga