



P O Box 18623
 Dalbridge
 4014

Tel: 031 205-9666
 Fax: 031 205-0655
 e-mail: winfosa@iafrica.com

Sole Southern African distributors of
ALGAE-X®

27 January 2003

ATTENTION : ALL DISTRIBUTORS

RE: ALGAE-X TEST CONDUCTED AT BARLOWS CATTERPILLER ISANDO

On 4th November 2002 we provided a test unit to Barlows on behalf of their customer Suiferfontein Mine to confirm Algae-X's effectiveness. An LG-X 1500 Unit was tested on a CAT 3508 motor and the following results achieved:

WITHOUT ALGAE-X

Engine State	ECM L/hr	KW	Exhaust Gas Temp. Deg. C
High Idle	80	28	247
1/4 load	90	156	334
1/2 load	127	305	404
3/4 load	162	455	468
full load	176	593	506

WITH ALGAE-X

Engine State	ECM L/hr	KW	Exhaust Gas Temp. ° C
High Idle	80	31	245
1/4 load	90	159	315
1/2 load	120	305	373
3/4 load	144	461	441
full load	174	593	483

IMPROVMENT	4.8L	2.4	20.4 ° C
% AVERAGED	4.25%		5.21%
½ - full load	5.8%		5.88%

Discussions and feedback from our other CAT clients such as Optimum Colliery indicate a fuel saving of 6.73% and this tends to be a more realistic figure as the equipment operates mainly in the half to three-quarter load zones.

An interesting new point to us was the substantial reduction in exhaust gas temperatures which quite frankly I was unaware of! On querying this aspect with Algae-X International, I was advised that this was indeed a benefit of Algae-X and the result was obtained by providing a more optimum burn of the fuel in the combustion chamber and not continuing to burn on the exhaust transfer.

Sadly Barlows were not prepared to confirm these results on a CAT letterhead (I cannot understand why as the tests were repeated by them three times with exactly the same results, and a meeting with them yielded no negatives or concerns). Apparently, company policy restricts them from doing this.

Installation of Algae-X will not negate the warranty on CAT equipment, except of course if it is found that Algae-X caused the failure -- as you well know, an impossible scenario.

The gentlemen at Barlows who conducted the tests are:

Mr Pietie Aukamp, telephone number 011-9290000 or 082-9029377 and
Mr Hendrik Loods, telephone number 011-9290000 or 083-3274045.

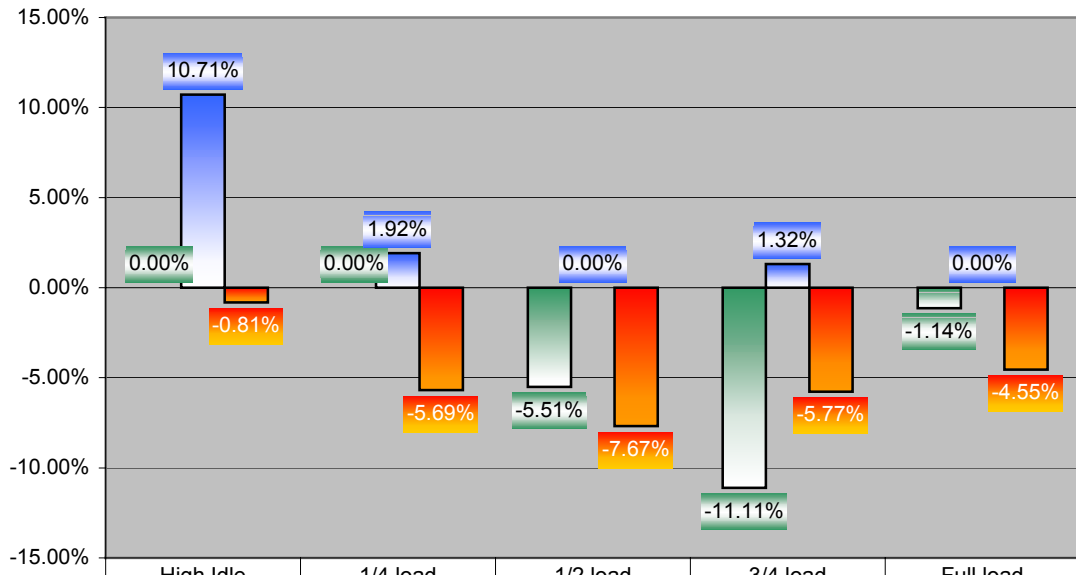
They have, however, advised that they will be more than happy to confirm the above results telephonically, should a client require confirmation of such.

Hoping this information will assist.

Regards

RON MATTIG
DIRECTOR

Caterpillar 3508 % Changes in Engine Performance with Algae-X Model 1500



	High Idle	1/4 load	1/2 load	3/4 load	Full load
% Change Fuel Burn	0.00%	0.00%	-5.51%	-11.11%	-1.14%
% Change KW	10.71%	1.92%	0.00%	1.32%	0.00%
% Change EGT ?C	-0.81%	-5.69%	-7.67%	-5.77%	-4.55%