



Malcan Greentec



Strictly private and confidential

Testing and analysis facilities at Malcan Greentec



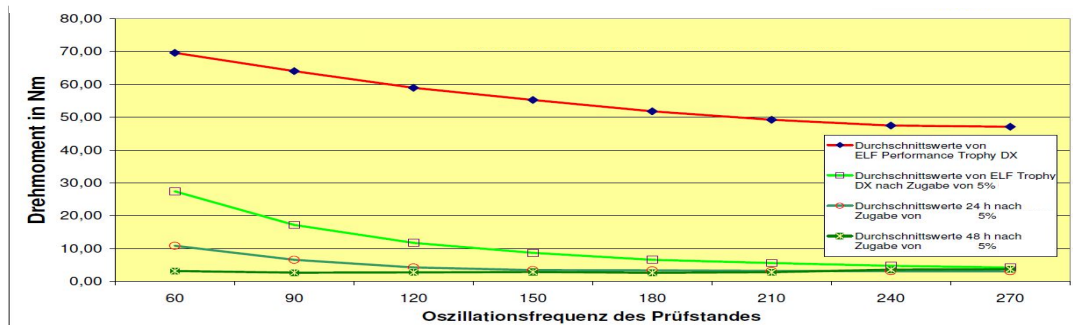
Friction coefficient test equipment

- Comparable with BAM (Bundesanstalt für Forschung und Materialprüfung)
- MALCAN equipment (with 30 years of experience in process engineering)

- BAM □ performance at 180 cycles/min1
- MALCAN □ performance at 480 cycles/min1
- able to reach mass surface loading rates up to 10 N/mm² at 270 cycles
- 30 years of experience in process engineering leads to much more realistic and close to reality results



Picture 1: Test equipment to simulate the engine behaviour for friction



Picture 2: Friction coefficient measurement showing the improvements using Malcan products

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Friction coefficient test results

- Friction coefficient improvement after adding AP60
 - measurement after adding 5% of AP60
 - after 24h
 - ✱ after 48h

-92,00%

Speed related analysis over all load areas

Oszillationsfrequenz in Zyklen pro min'		average values for ELF Performance Trophy DX	average values after 5% of AP60	average values after 5% of AP60 and 24h	average values after 5% of AP60 and 48h
		60	69,57	27,46	10,89
90	64,01	17,21	6,63	2,72	
120	58,93	11,78	4,31	2,79	
150	55,25	8,73	3,48	2,93	
180	51,77	6,63	3,43	2,67	
210	49,22	5,65	3,24	2,85	
240	47,43	4,81	3,15	3,62	
270	47,10	4,25	3,11	3,77	

