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TO WHOM IT MAY CONCERN

RE: JOHN RATCLIFFE cc - SINTERED METAL DIESEL PARTICULATE FILTER (DPF)

We are pleased to provide this reference letter for the John Ratcliffe's Sintered Metal Diesel Particulate Filter (DPF).

We confirm that an investigation on options to reduce emissions underground took place at Wessels Manganese Mine in Hotazel, Northern Cape during February 2015. For this investigation, the Diesel Particulate Filter (DPF) systems from **John Ratcliff cc** were installed on three (3), already operational underground mobile equipment namely, i) Caterpillar R1600 LHD; ii) Caterpillar R1700 LHD and; iii) an AARD Mining UV80 Machine.

Regular testing confirms that **John Ratcliff cc's** DPF system reduces >99% of DPM's from the exhaust fumes, both Elemental and Total Carbon. After six months of operational testing, this DPF system has proven to be reliable and is an effective means to remove diesel particulate matter with limited maintenance effort. The electronic control unit (ECU) installed with the system also assists with fault finding on the machines.

Overall, we are pleased with this equipment and it is valuable and delivers desired results.



MP Wepener
Engineering Manager - Wessels Mine