

Siemens Energy Global GmbH & Co. KG,  
SE GP G LRE LGT R&D TEST MLH MAT, Mellinghofer Str. 55,  
45473 Muelheim an der Ruhr, Germany

Fluitec  
Mr. Jo Ameye  
Amstelwijckweg 17  
3316 BB Dordrecht  
The Netherlands

Name Dr. Ludger Quick  
Department SE GP G LRE LGT R&D TEST MLH MAT

Telephone +49 (173) 7058293  
E-Mail ludger.quick@siemens-energy.com

Date 10.08.2022

## Experience with ESP Application

Dear Mr. Ameye,

I can confirm that ESP cleaning technology was tested at Siemens Energy on different oils and applications. We carried out the Siemens oil analysis program in many cases and could not detect negative effects on the oil main parameters and additive contents. Some parameters were even better after the oil cleaning.

ESP technology has been integrated into more than 100 applications in Siemens Energy rotating equipment. Our experience shows that the application has had a positive effect on preventing varnish deposits. Furthermore it is known that the degradation of antioxidants is driven in particular by oxidation products present in the oil. The removal of these varnish precursors by the ESP method has a positive effect on the consumption of these antioxidants. This finally leads to an extension of the service life of the lubricating oil.

Therefore, ESP cleaning technology can be recommended for varnish removal and life time extension.

With best regards,



Dr. Ludger Quick

Siemens Energy Global GmbH & Co. KG

Mellinghofer Str. 55  
45473 Muelheim an der Ruhr  
Germany

Tel.: +49 (208) 206 0  
Fax: +49 (208) 456 2400

Registered office: Munich, Germany; Commercial registry: Munich, HRA 111200;  
Personally liable partner: Siemens Energy Management GmbH;  
Chairman of the Supervisory Board: Joe Kaeser;  
Executive Board: Christian Bruch, President and Chief Executive Officer; Karim Amin, Maria Ferraro, Tim Oliver Holt;  
Registered office: Munich, Germany; Commercial registry: Munich, HRB 241345  
SCF V12