

# Air Separation Application



**WINSONDA OIL FILTRATION SOLUTIONS**

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## Industrial Gas Manufacturer Increases Maintenance Interval

### Customer

**Linde gas**

- Siemen's compressor
- Mobile DTE846, #46

### Problem

Client has the problem of overheated bearing during operation and the temperature was much close to the value that machine went to shutdown. Considering heavy production tasks, they cannot have machine stopped for an overhaul inspection and maintenance.



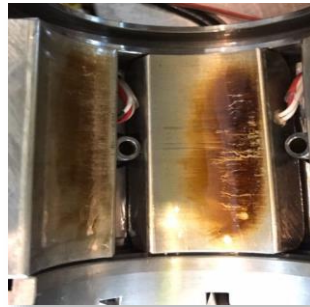
### Solution

Winsonda's varnish removal unit was installed at the place of reservoir with a flow rate 1200L per hour in July 2018 which aims to remove the particles and products of oil degradation (Varnish/Sludge) in lubricating system.



### Result

After one month continuous filtration process, client hasn't experienced the problem of overheated bearings. Also the cleanliness of lubricant improved drastically and mitigate the varnish potential with an optimal MPC value.



Date	2018/7/11	2018/8/31	2018/10/24
ISO 4406	23/22/12	18/17/12	17/15/12
MPC Value	17.7	13.3	8.6
AN	0.24	0.16	0.15

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## Industrial Gas Manufacturer Mitigates Varnish Potential

### Customer

**Yingde Gases**, A leading Chinese gases manufacturer with subsidiaries operating in over 20 provinces of mainland in China.

- MAN Compressor
- Mobile DTE846, #46
- 48m<sup>3</sup> (48000L)

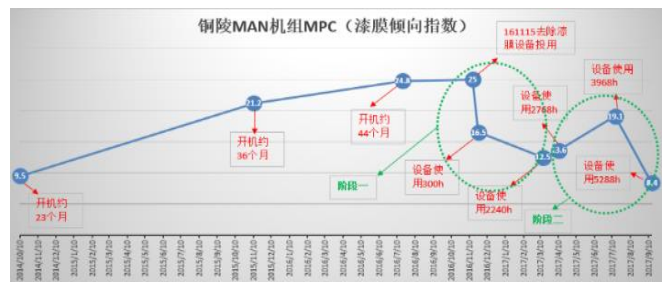
### Problem

Based on cycle lube inspection, client found out the MPC value (varnish potential ) is with a rising trend and there are serious varnish formation at the bearing side.



### Solution

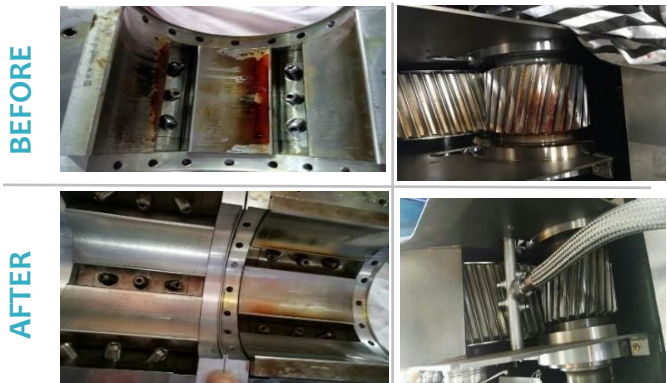
To avoid unscheduled breakdown and stop the lubricant deteriorating further Winsonda’s varnish removal unit (**WVD-II**) was recommended and installed to the reservoir with a flow rate 1200L per hour on 15<sup>th</sup>, Nov. 2016 which is designed to mitigate the varnish potential.



Date	2016/11/15	2017/3/10	2017/9/10
MPC	24.8	16.3	12.5

### Result

After months filtration, client has received a good MPC value in lube test. Also, engineers were happy to find that varnish was removed from the surface of critical components during overhaul inspection. Winsonda’s effective filtration solutions increased machine reliability and huge sum of money was saved.



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## Recognition

Thanks to the remarkable effect of our products in removing varnish, WVD-II has been widely used in Yingde Group, with a total purchase of more than 70 sets of oil filtration units. Yingde Gases trusts MAN machines and there is another case for your reference.



### MAN Diesel & Turbo Shanghai Logistics Co.,Ltd

Zhangjiang Hi-Tech Park, East Area Renqing Road 279, Heqing – Pudong  
Phone +86 21 3891

**Dear Supplier (WSD ENVIRONMENTAL PROTECTION EQUIPMENT CO.,LTD):**

*Thanks very much for your quick and effective support for our Jiayingboost Boost compressor emergency abnormal bearing temperature rising issue in Nov 2017.*

*Your professional lube oil varnish removal technique with our OEM troubleshooting wined end-user 's appreciation and we are willing to keep long-term cooperation to serve our end-user in varnish removal area in the future together .*

*Please find the below end-user's feedback of the performance*

- *"....In December 2015, client replaced the lubricating oil brand (Shell CC46 replaced to Mobil DET846 lubricants ). In December 2015 to September 21, 2017, the machine bearing temperature and vibration parameters were smooth without exception, but In September 21, 2017 restarted after trip, St.4 bearing temperature found a slowly rising trend, and in one month (September 21- October 21) The shaft temperature rose from 85 ° C to 89 ° C. From October 21 to 31 2017, the St.4 bearing temperature still keep increase slowly and climb to around 90 ° C;...."*
- *"....After installation of the WSD oil purifier in Nov 2017, the St.4 bearing temperature decreased smoothly from 90 ° C to 84.5 ° C in one week , and keep stable between around 84 ° C and 85 ° C in the whole year 2018 with exchange the filters of the oil purifier once in August 2018 . Generally ,the oil purifier's performance is helpful and stable , recommend MAN to consider to include this oil purifier into new sales supplier scope with machine together ...."*

*Sincerely*

MAN Diesel & Turbo Shanghai Logistics Co.,Ltd

Contact: 

Date: 2018.12.06