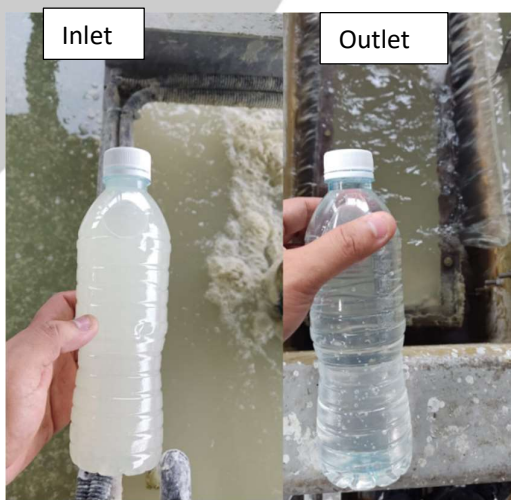


Case Study: Performance of Jorsun IDAF in Glove Industry

Author: Chow KW, Oct 2022

IDAF stands for **D**issolve **A**ir **F**loatation with **I**ntegrated chemical reaction compartments. In this case study, PureGen investigate the performance of a Jorsun IDAF installed in an IETS plant of a renowned glove manufacturer.



The IDAF2-120 is capable of treating up to 120m³/h of wastewater. It come with 3 chemical reaction compartments, namely pH Adjustment, Coagulation and Flocculation

Grab samples are collected from the IDAF inlet and outlet. The samples were sent for lab analysis on BOD, COD, Turbidity, TSS, Oil & Grease. The result as below:



CERTIFICATE OF ANALYSIS

COMPANY : PUREGEN CLASSIC SDN BHD
NO.1D JALAN PTP ¾, TAMAN PERINDUSTRIAN
TASIK PERDANA.

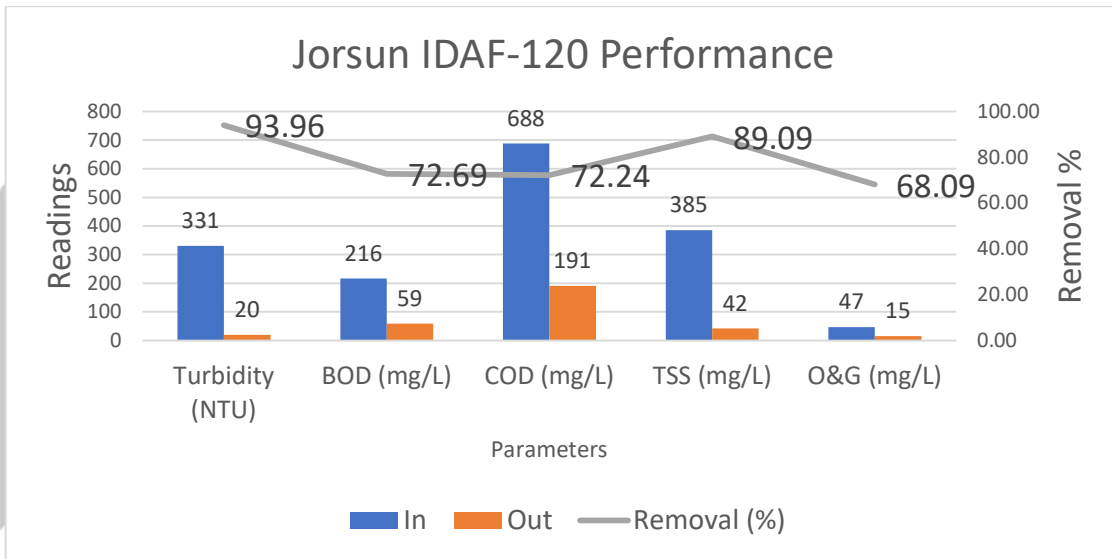
LAB REF NO. : 1088/6504/22
ISSUED DATE: 10 AUGUST 2022
PAGE : 01 OF 01

NO. OF SAMPLE : TWO (2) NOS.
SAMPLE DESCRIPTION : WATER
SAMPLE MARKING : (1) BEFORE
 : (2) AFTER
SAMPLING DATE : 03 AUGUST 2022
RECEIVED DATE : 03 AUGUST 2022

ANALYSIS RESULTS

| TEST PARAMETER | RESULT | | DATE OF ANALYSIS | UNIT | METHOD REF. |
|---|--------|------|-------------------|------|---------------------|
| | (1) | (2) | | | |
| TURBIDITY | 331 | 20 | 03/08/22 | NTU | APHA 2130B |
| BIOCHEMICAL OXYGEN DEMAND @ 20°C FOR 5 DAYS | 216 | 59.0 | 03/08/22-08/08/22 | mg/l | APHA 5210B & 4500OG |
| CHEMICAL OXYGEN DEMAND | 688 | 191 | 03/08/22 | mg/l | APHA 5220C |
| TOTAL SUSPENDED SOLIDS | 385 | 42 | 03/08/22 | mg/l | APHA 2540D |
| OIL & GREASE | 47 | 15 | 03/08/22 | mg/l | APHA 5520D |

Result Analysis



PureGen is glad to report that the Jorsun IDAF is capable of **remove nearly 90% of turbidity and TSS**. Around **70% removal** can be achieved in term of **BOD, COD and oil & grease**.

It was indeed an encouraging result, showing the potential of Jorsun DAF product in highly demanding industry sector.



PureGen is the appointed distributor of a wide range of Jorsun products, including conventional DAF, IDAF, lamella clarifier, rotary sludge scrapper etc. to the Malaysia market. Feel free to contact our sales team for more information.



About the Author:

Chow KW has over 10 year of experience in water treatment industry. His current role as the head of technical department of PureGen Classic, focus in providing product technical support, both internally and externally.