

UNDERSTANDING ISO CLEANLINESS CODES

The ISO cleanliness codes are derived from International Standard ISO 4406:99. ISO codes show 3 sets of separated numbers. These numbers refer to ranges depicting the number of particles 'larger than' 4 micron, 6 micron and 14 micron respectively. Obviously as 6 micron and 14 micron particles are both larger than 4 micron those particles are all also present in the first number. The second number only shows particles larger than 6 micron. The last number only shows particles larger than 14 micron.

The table on the left shows the number of particles in 100mL of fluid that is specified against each number in the range. Based on the example shown there are literally millions of small particles present in just 100mL of fuel or oil at a cleanliness level of ISO 22/21/18.

Do you know the required oil and fuel cleanliness requirements for your equipment?

Have you had your workshop hydrocarbons tested?

* Note: ISO 4406:99 states particles per 1mL. Commonly with heavy oils where the number of 4 micron particles is of little significance some companies use two digit ISO codes (e.g. ISO 21/18) where the two codes

relate to 6 and 14 micron particles only.

ISO 4406 CONTAMINATION CODES

Range of number of particles per 100 milliliters

