

Nas 1638 pdf

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nas1638 has been the most commonly used cleanliness. the lab results contain detailed information on the condition of the fluid. nas 1638 is comprised of fluid cleanliness classes, each class defined in terms of maximum allowed particle. the nas 1638 reporting format was developed for use where the nas 1638 pdf principle means of counting particles was the optical microscope, with particles sized by the longest dimension per arp598. see the nas 1638 chart below for the various cleanliness levels: converting oil cleanliness standards - iso to nas to iso. this document provides versatility in identifying a maximum class in multiple size ranges, total number of particles larger than a specific size or designating a class for each size. it is an old standard, originally employed in 1964 to classify the cleanliness levels in hydraulic components and systems within the us aerospace industry. pdf nas stands for national aerospace standard. although there is no guidance given in the standard on how to quote the levels, most industrial users quote a single code which is the highest recorded in all sizes. worst case) for designated particle. the following documents form a part of this specification to the extent specified herein. identification marking methods. the first involves sending a fluid sample to a laboratory for analysis. see the nas vs iso cleanliness chart below for a good approximation. this distribution was based on particle contamination inside delivered aircraft hydraulic components in the 1960s. the nas 1638 coding system defines the maximum numbers permitted of 100ml volume at various size intervals pdf (differential counts) rather than using cumulative counts as in iso 4406. however, only the largest (worst) of the 5 individual classes (e. data is sorted into cumulative particle counter. a method of calibrating apc' s. note - the comparisons relate to particle count data only. nas 1638 represents the counts of particles in five size groups: 5 to 15 microns per 100 milliliters (ml) 15 to 25 microns per 100 ml. the contamination levels selected are an extension and simplification of the widely accepted nas 1638. nas 1638 classes based on weight of particles are not applicable to these classes and are not included. nas 1638 was the forerunner of other contamination coding. contamination level classes according to nas 1638 (january 1964) the contamination classes are defined by nas 1638 pdf a number (from 00 to 12) which indicates the maximum number of particles per 100 ml, counted on a differential basis, in a given size bracket. 50 to 100 microns per 100 ml. cleanliness level required for me- system - iso 4406 code xx/ 16/ 13. a contamination code has been added to describe the contamination levels of the fluid at the specified particle size ranges. nas 1638 classes based on weight of particles are not. it is used widely in the uk north sea industries. comparison of the nas 1638 classes to as4059 classes is defined and the differences explained (appendix b). this sae aerospace standard defines cleanliness levels for particulate contamination of hydraulic fluids and includes methods of reporting data relating to the contamination levels. most industrial users quote a single code which is the highest recorded in all sizes, e. nas 1638

contamination level according to nas 1638: the contamination classes are defined by a number (from which indicates the maximum pdf number of particles per 100 ml, counted on a differential basis in a given size bracket. sae international arp598 arp743 arp785. , 9) is reported as the nas class. nas 1638 is a standard for classification of particle contamination in oils and fluids. exam

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