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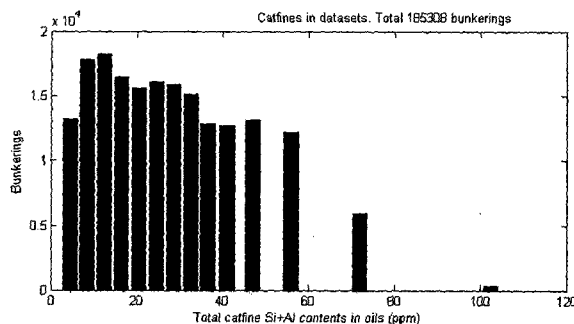
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FIG. 7a



(57) **Abstract:** The invention concerns a method of performing a quantitative and/or qualitative determination of catalytic fines in fuel oil and a system suitable for determining catalytic fines in an oil using the method. The method comprises determining aluminum using NMR and quantitatively and/or qualitatively determining the catalytic fines based on the aluminum determination. The system comprises a NMR spectrometer, a digital memory storing a calibration map comprising calibrating data for calibrating NMR spectra obtained by the NMR spectrometer and a computer programmed to analyze the NMR spectra obtained by the NMR spectrometer using calibration map and performing at least one quantitative and/or qualitative catalytic fines determination.

