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# GIDROEKSKAVATORNING GIDROBAKDAGI HAVO FILTRINING ICHIDA CHANGLANGAN HAVO OQIMLARI HARAKATINI MODELLASHTIRISH

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**ANNOTATSIYA**

Ushbu maqolada havo filtrining ichida chang zarralarining harakatlanish modeli ko'rib chiqiladi. Ma'lum bo'lishicha, qattiq chang zarrachalar ishchi suyuqlik va gidrobakka havo filtrlari orqali tushadi. Suyuqlikka kelib tushgan qattiq zarralar tizim bo'ylab sirkulyatsiya bo'lganda, germetikligi pasayib gidrotsilindr ishlaganda ishchi suyuqlikni o'tkazuvchi, gidrotsilindr zichlagichi va salniklarini eskirtiradi. Havo filtri ichida changlangan havo oqimlarining harakatini matematik modellashtirish ishning natijiasi hisoblanadi.

**Kalit so'zlar:** havo filtri, fizika, zarra, sanoat, modellashtirish, matematik modellashtirish.

# MODELING THE MOVEMENT OF DUSTED AIR FLOWS INSIDE THE AIR FILTER OF THE HYDRAULIC EXCAVATOR

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**ABSTRACT**

This article discusses a model of the movement of dust particles inside an air filter. It turns out that solid dust particles fall into the working fluid and the hydraulic tank through air filters. When solid particles circulating in the liquid are circulating through the system, their hermeticity

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decreases and the hydraulic cylinder seals, hydraulic cylinder seals and seals wear out when the hydraulic cylinder is running. Mathematical modeling of the movement of dusty air streams inside the air filter is the result of the work.

**Keywords:** air filter, physics, particle, industry, modeling, mathematical modeling.

**KIRISH**

Ma’lumki, ishchi oqimlarning o’zini tutishi dispers fazaning fizik-mexanik xususiyatlariga bog’liq. Sanoat changlari polidispers bo’ladi, shuning uchun zarralarni o’lchamiga ko’ra taqsimlash funksiyasi uchun analitik ifodalar sanoat changining fizik-mexanik xususiyatlarini matematik tasvirlashning muhim elementi hisoblanadi [1; 571-578 b.].