

## Field Test General Information:

- **Customer Name:** NDA
- **Nano Pro MT project leader:** V.Y.
- **Nano PRO MT Product:** NXD Grease
- **Sector & Subsector:** Heavy Machinery / Construction
- **Application Name:** Greasing of 2 main bearings in a HogZilla track mounted tub grinder
- **Type of Equipment / Model:** HogZilla HTC-1464T Tub Grinder/  
Dodge mounted main bearings
- **Used Grease:** Amelie Pro Tac Plus (Lithium Complex- NLGI # 2)
- **Greasing Frequency:** 2 times per day (5 gallons of grease/day)



## Test Description:

A track mounted grinder from a construction company was showing a higher grease consumption than expected during sediment grinding activities. This equipment has to operate in a harsh dust and water exposed conditions, which forced the operator to re grease the main bearings up to 2 times/day. These service conditions was leading an average daily consumption over 5 gallons of grease per day

It was proposed to apply Nano Pro MT NXD Extreme Duty Grease with nanoparticles in the two (2) main bearings around the grind section. Once the old grease was completely removed, the new performance and greasing frequency were compared against the equipment baseline.

## Problem or situation to Improve:

- Production stoppage for greasing activities
- High grease consumption rated over 5 gallons/day in the grinder main bearings

## Test Objectives with Nano Pro MT NXD Grease:

- Reduce the equipment greasing frequency as much as possible
- Reduce the equipment grease consumption



Prior the Nano Pro MT Grease application, the Dodge main bearings have to be greased 2 times per day

## Test Main Results:

- In less than a week, the greasing frequency was reduced by 2X, from 12 hours to every 24 service hours
- The NXD Grease stayed adhered in the mechanical components despite the harsh conditions for longer time intervals
- The daily grease consumption was reduced to a half after NXD Grease application



After Nano Pro MT NXD Grease application, the greasing frequency was reduced by 2X (from two (2) greasing stoppage to only one (1) stop per day)

## Main benefits for the company:

### Performance: - Availability and reliability

- Improvements in the equipment availability as a result of fewer greasing intervals (2X)
- Reduction in average grease daily consumption (50%)
- Lower man-hours invested in maintenance activities

### Financial - Reduction of Opex and Capex

- Higher productivity due to less maintenance downtime
- Savings in annual grease consumption

### Environmental - Lower impact

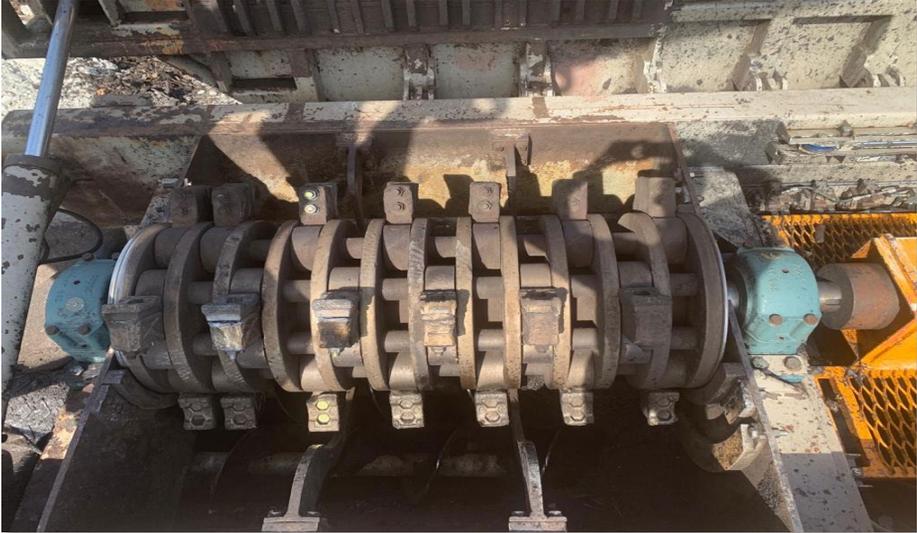
- Lower annual grease consumption
- Reduction of grease spills

## Field Test Gallery:



HogZilla model view (left) and main bearing supporting the grind section shaft (right)

### Field Test Gallery (Cont.)



View of two (2) main bearings (blue parts) around the grind section



NXD Greases are available in the following sizes:

- NDT14MG - 14 Oz Cartridge
- NDTCS35NXD - 35 lb. Pail
- NDTCS120NXD - 120 lb. keg
- NDTCS400NXD - 400 lb. drum



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