

# Caster Oil Filtration

## INDUSTRIAL OIL FILTRATION | CASTER OIL REMOVAL

### Caster Oil Filtration, Mittal Steel (Formerly Inland Steel)

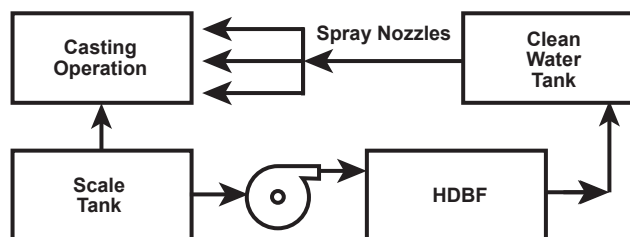
#### PRODUCT USED:

**STiR Filter and  
Walnut Shell Media Filter**



END USER:	Mittal Steel (formerly Inland Steel)
LOCATION:	East Chicago, IN
UNITS:	(3) PS-1089
FLOW RATE:	16,000 gpm. ( <b>23 Million Gallons of Water per day</b> )
PROCESS:	Removal of Caster oil and Suspended Solids from Cooling Water

#### CASTER OIL FILTRATION-PROCESS FLOW DIAGRAM



#### MORE INFO

Mittal Steel (formerly Inland Steel) produces steel ingots for use in a variety of applications. The plant cast steel billets and uses cooling water to quench the billets as they are produced.

The Deep Bed Filter then cleans this process water and removes the caster oil and suspended solids. This ensures that the spray nozzles do not become plugged, and the cooling process is continuous and remains uninterrupted.

This walnut shell filter was selected for this caster oil treatment application, as sand and anthracite filters cannot be exposed to the caster oil, as their media beds will harden and foul.

The Deep Bed filter is ideally suited to remove caster oil and suspended solids in this application as the oil is

coalesced in the bed, and then backwashed (walnut shell regeneration) once per day.

Typically these industrial oil filtration units produce effluent with less than 1 ppm oil and TSS (total suspended solids), with inlet water quality excursions above 100 ppm oil and grease, and TSS.

The units have been in operation for over 30 years and require minimum maintenance consisting of one scheduled vessel entry per year.

**Contact us now, 248-427-9090 to find out how you can get a similar or customized solution for your castor oil removal application.**