Partners for Pollution Prevention

Case Study: Chemical Reduction

Andrew Blahut – Fluid Engineer

Transynd Recycling

3 Areas of Waste Reduction

- Transynd Recycling
- RFID (oil usage)
- Coolant

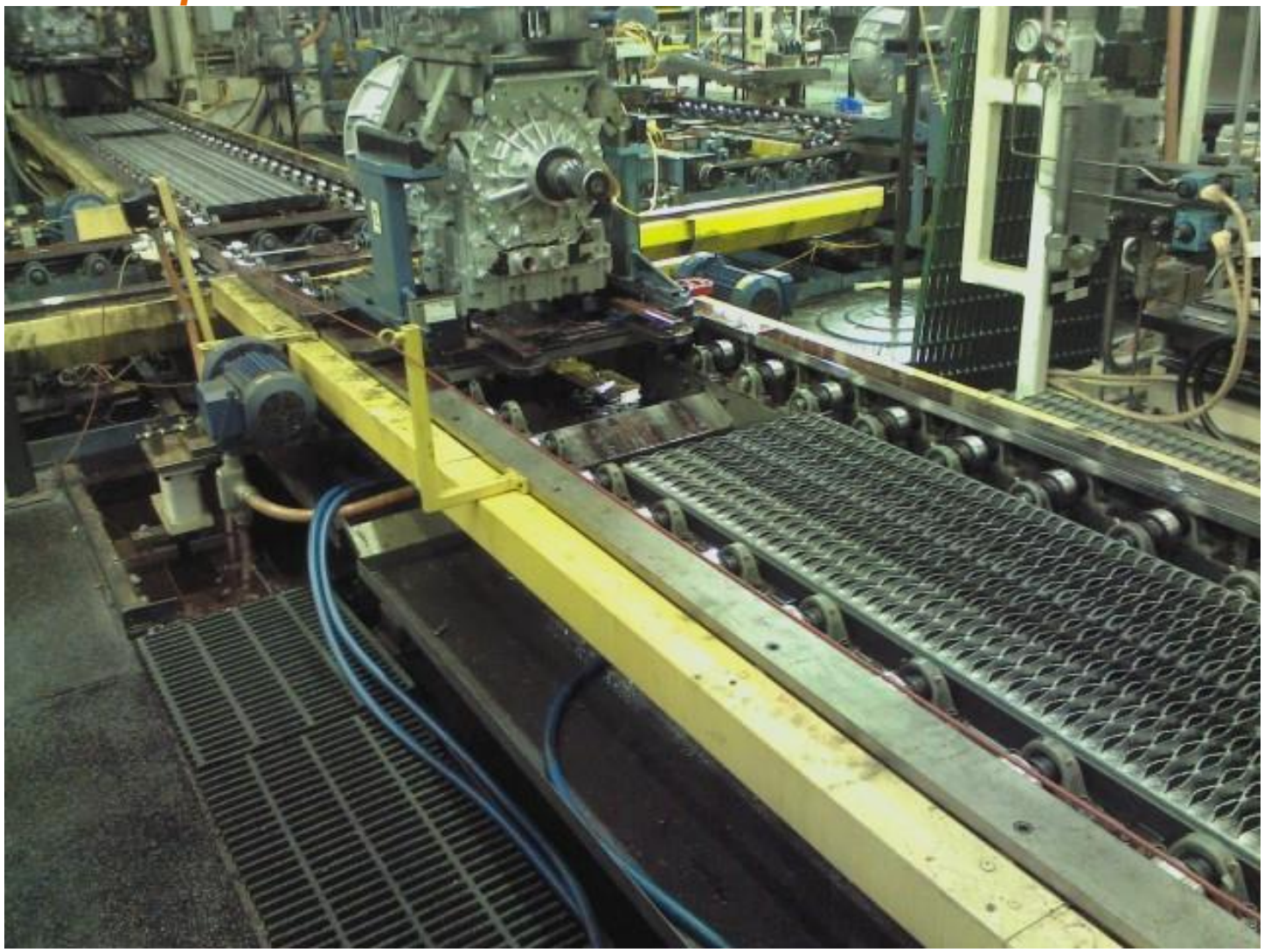
Transynd Recycling

How to recover contaminated Transynd

- Purpose – filter drained Transynd
- Process –
  - we test 100% built transmissions
  - drain & filter in local filtration system
  - collect spillage, drainage under conveyor system – “contaminated” Transynd
    - hold for filtration service – remove dirt & water

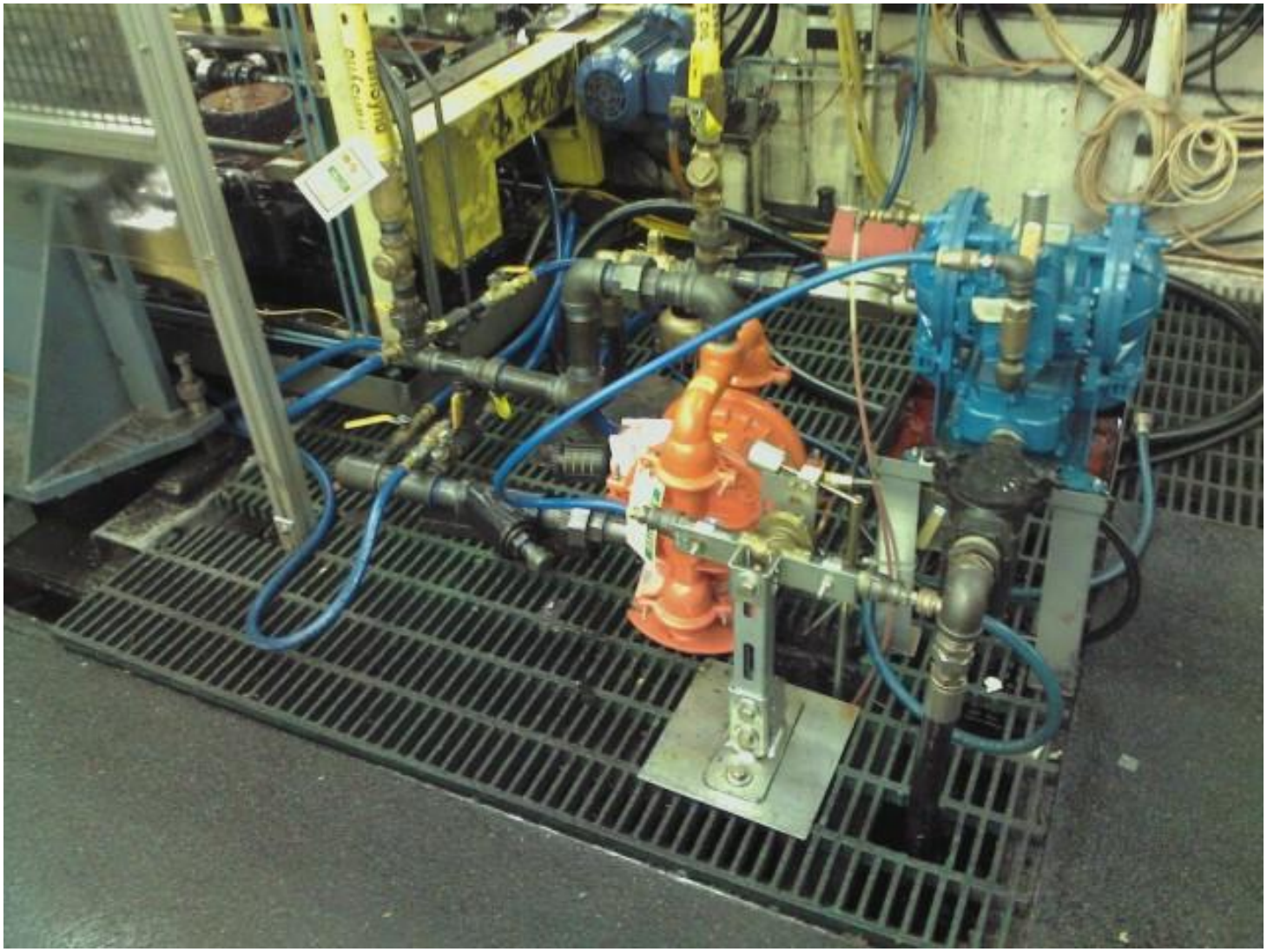
Transynd Recycling

Catch pans



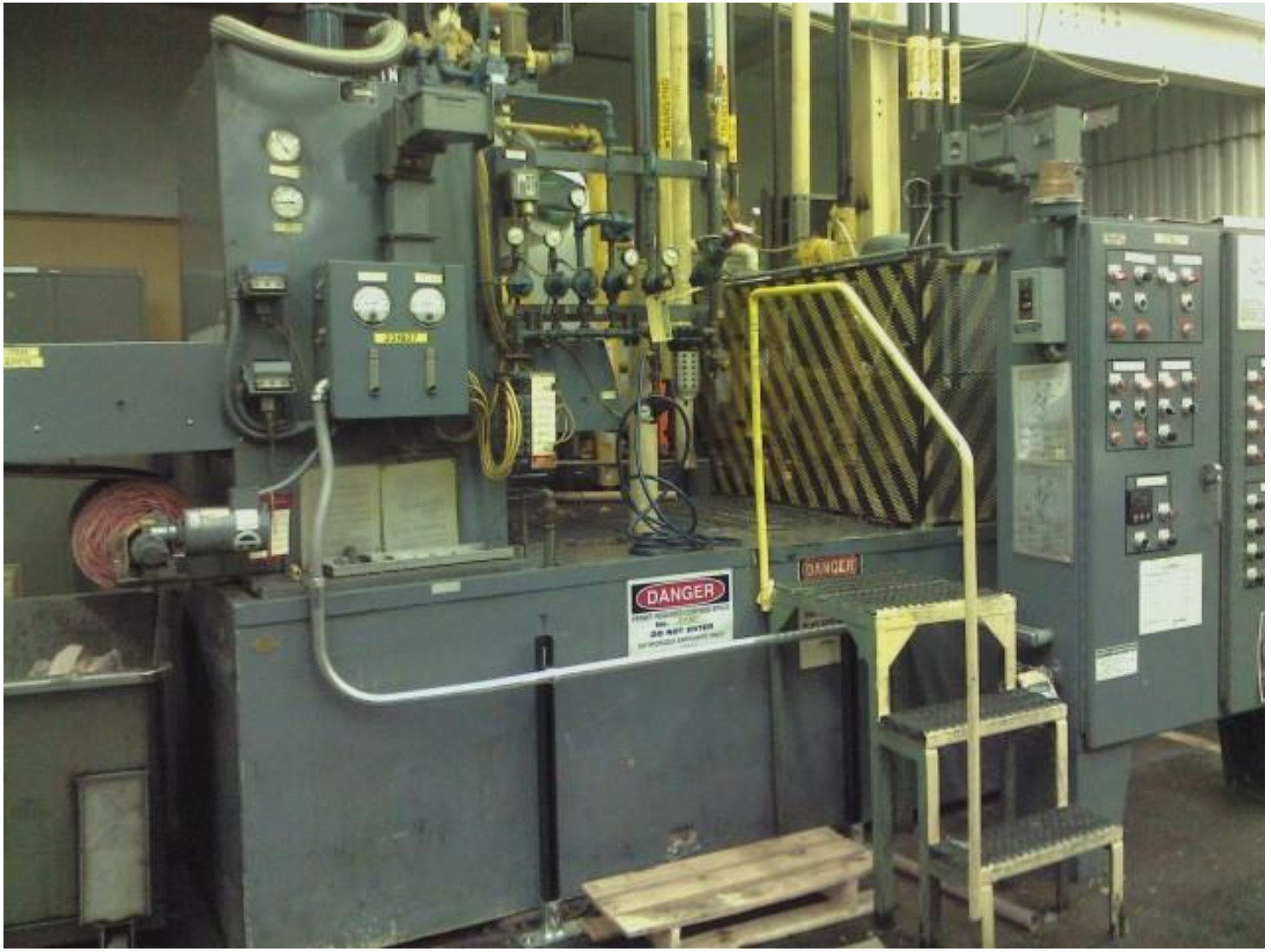
Transynd Recycling

Pan pump & Floor Pit Pump



Transynd Recycling

Filtration System (not recycling)



Transynd Recycling

Floor Trough

Transynd Recycling

Collection Tanks & Filter Truck

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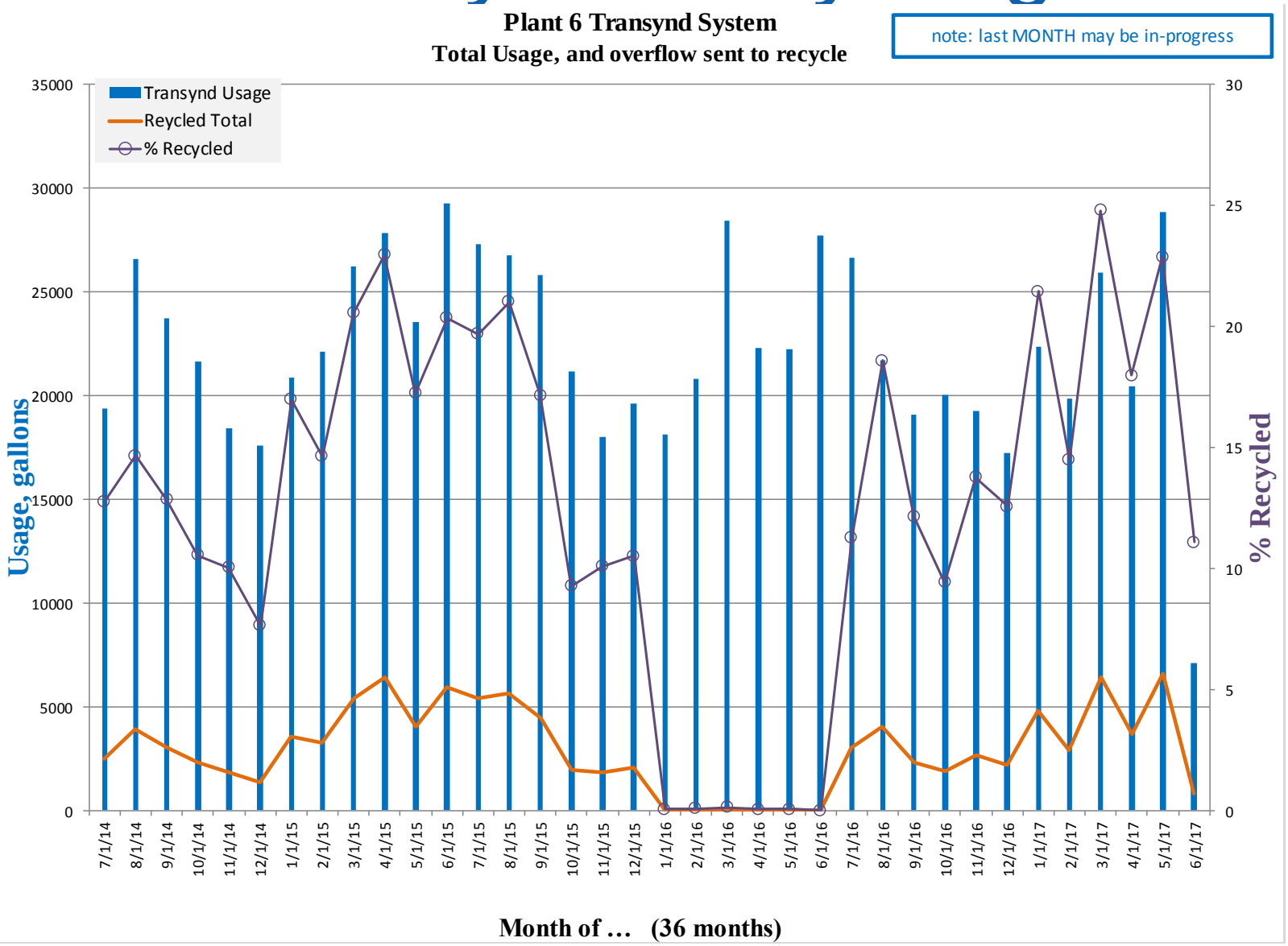
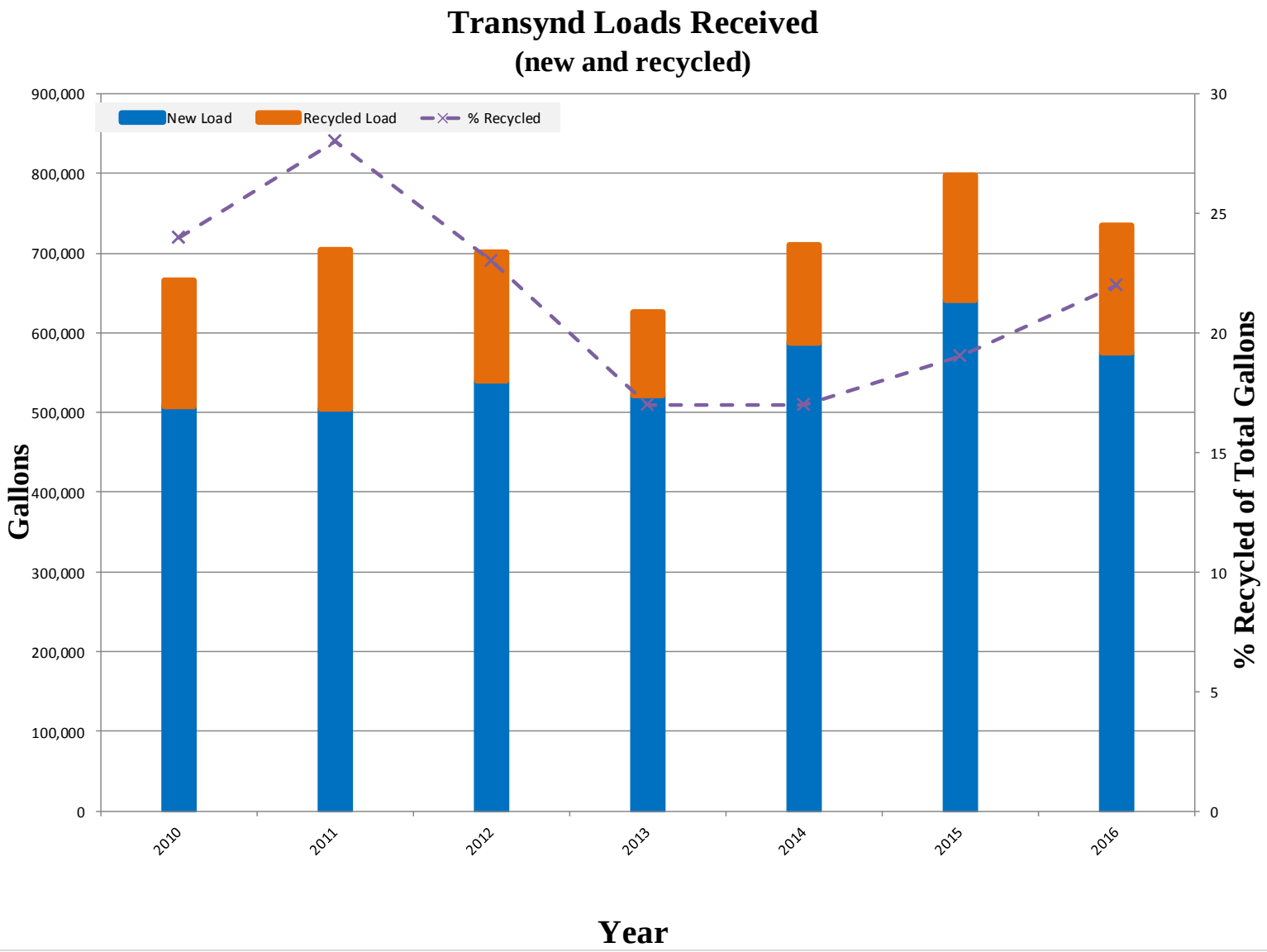
Transynd Recycling

Filter Truck

Transynd Recycling



Transynd Recycling



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RFID Program

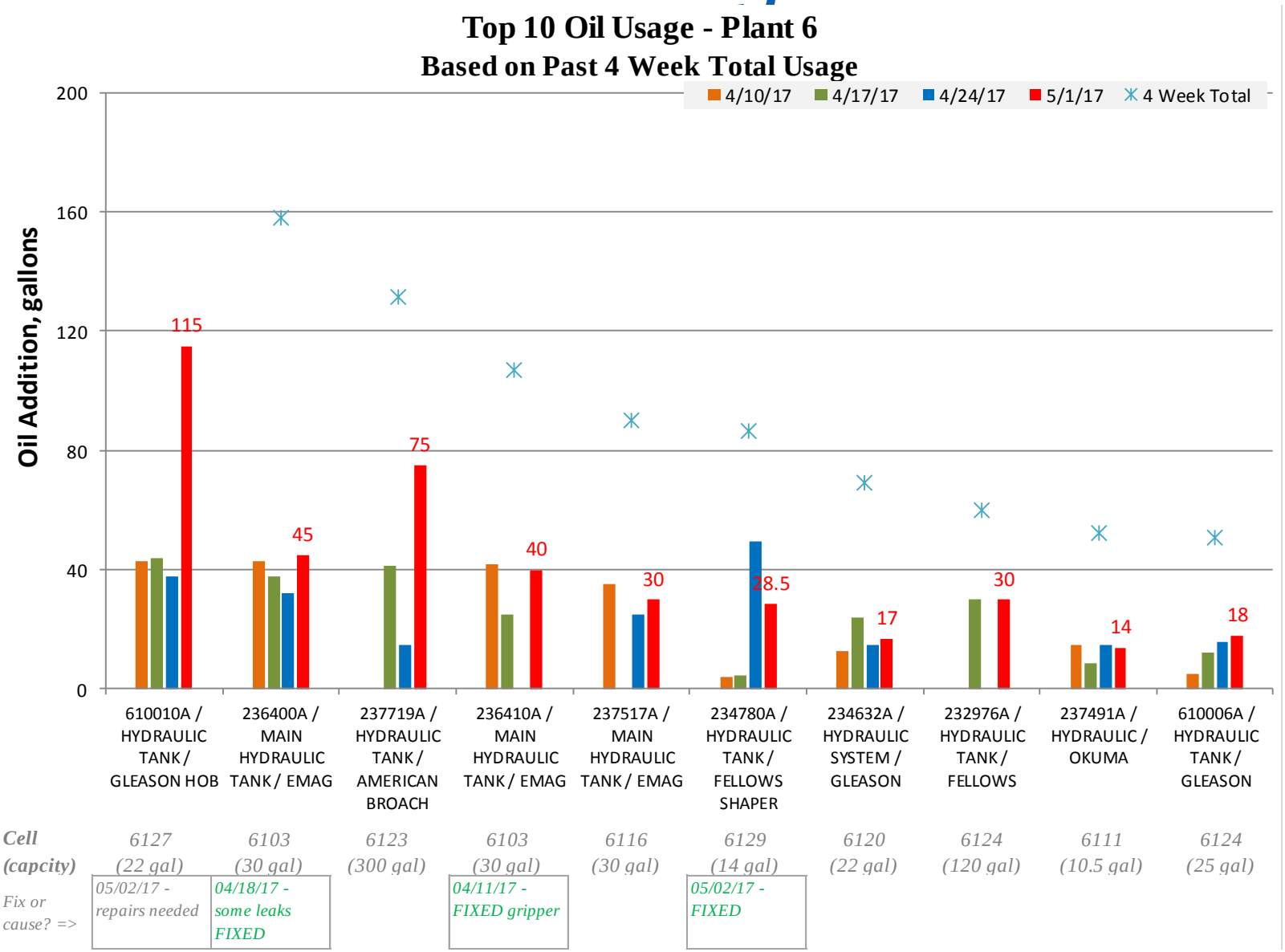
Radio Frequency Identification

- Purpose – method to track oil usage
- Process –
  - scanner reads RFID button
  - oiler enters quantity of oil added
  - Fluid Engineers analyzes data weekly

RFID Program

Oiler Station – Cart, tanks, storage

RFID Program



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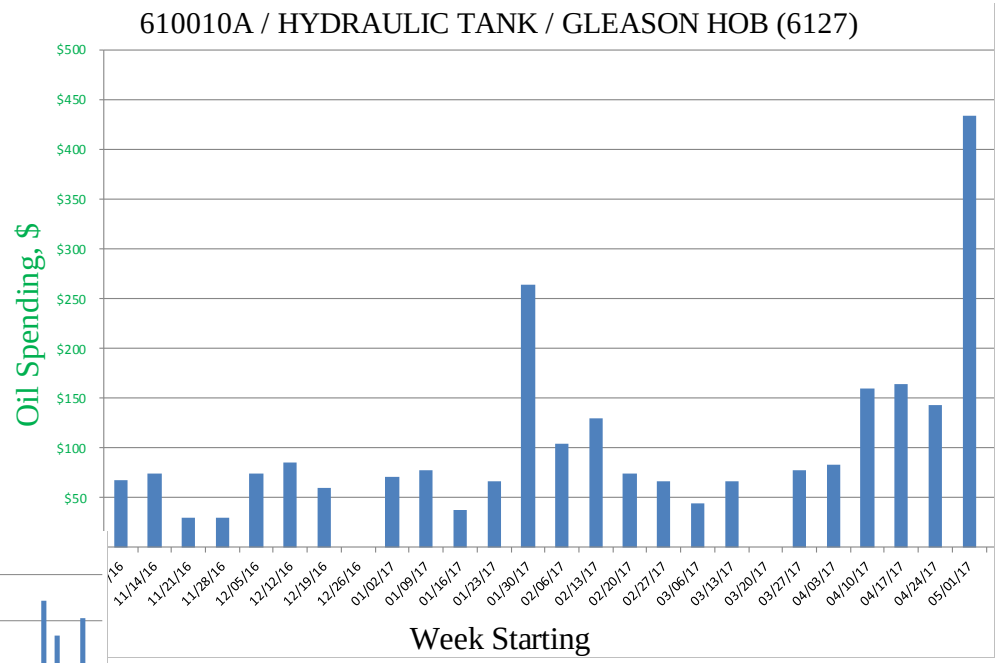
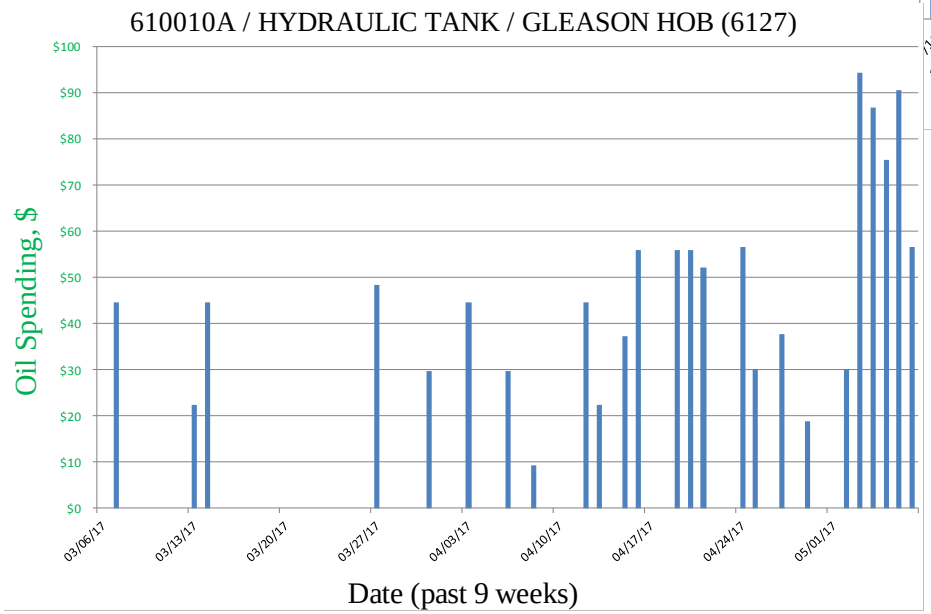
RFID Program





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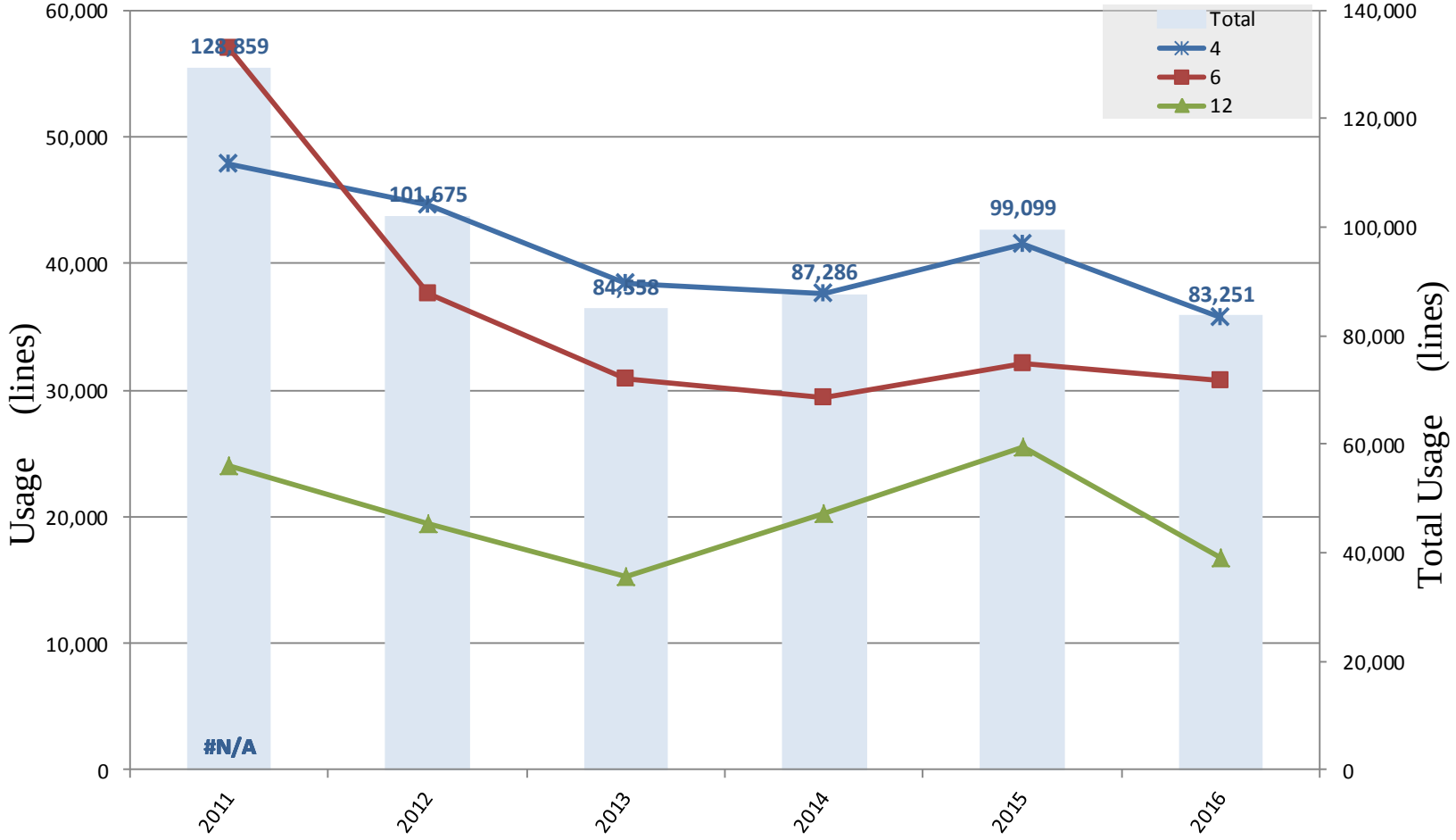
RFID Program

RFID Data - by Plant

Data Filters: Plant - 4 6 12 , Operation - All, Date Range - 1/2011, Cell/Dept - All, Brand - All



Data thru 6/4/17

current year may be in progress

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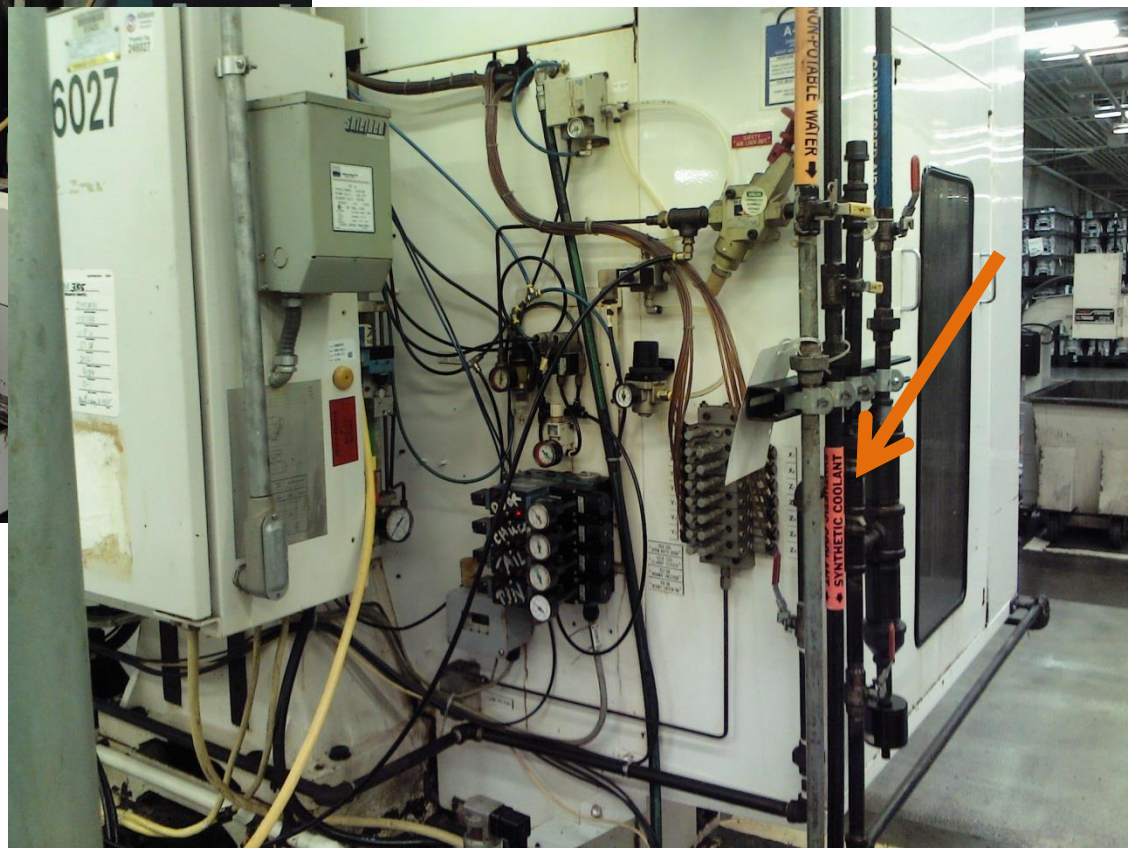
Coolant Pump Out Frequency

Replace OH (overhead) supply coolant

- Purpose – reduce coolant waste
- Process –
  - we have individual coolant sumps
  - coolant life, cleanliness, chip buildup, oil leaks
    - all help determine the PM cycle for pump outs
    - ranging from weekly to 12W frequency

Coolant Pump Out Frequency

Individual sumps
Filled by drop lines



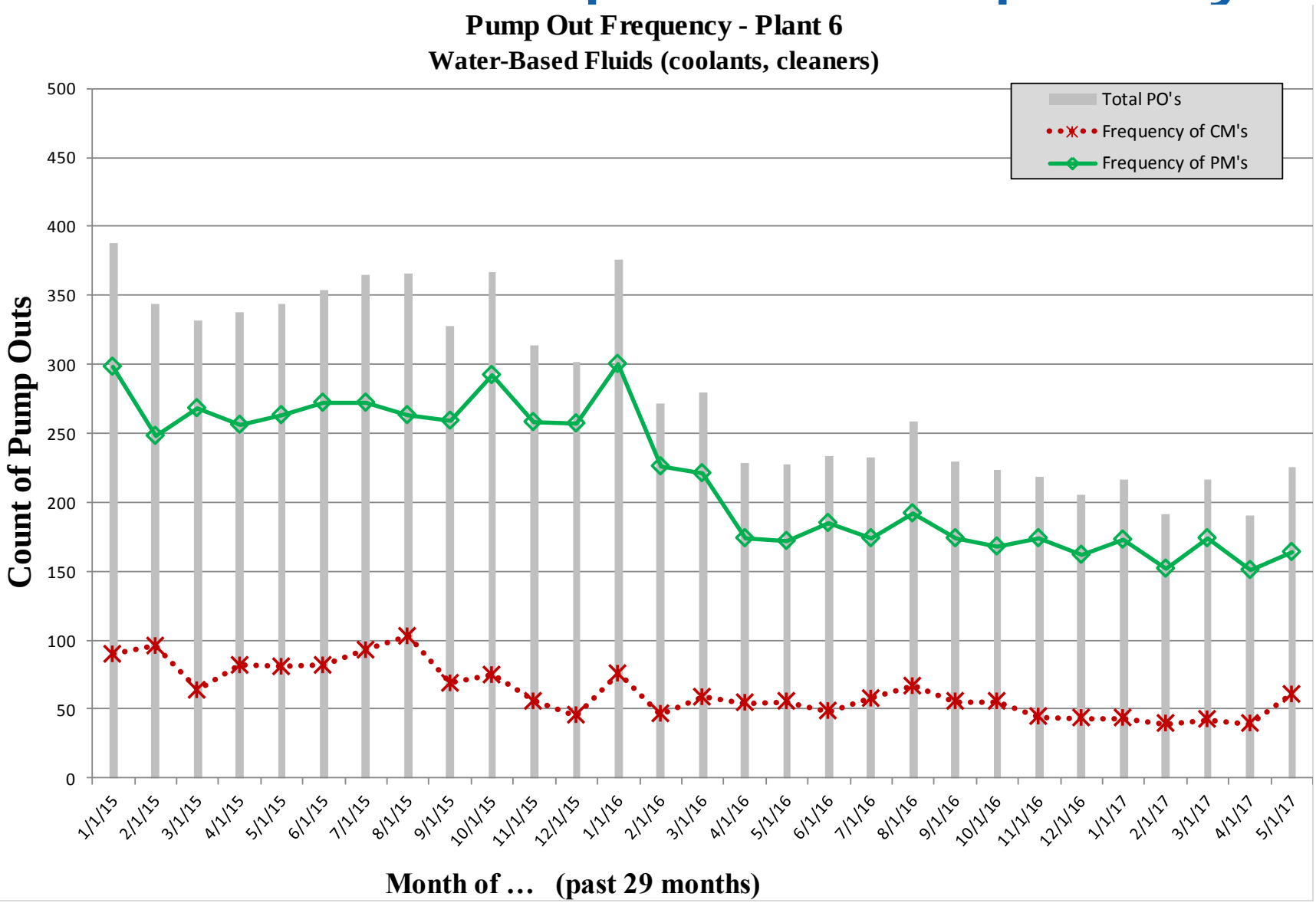
Coolant Pump Out Frequency

Chip Buildup

Coolant Pump Out Frequency

Oil Leak – extend sump life with oil skimmer

Coolant Pump Out Frequency



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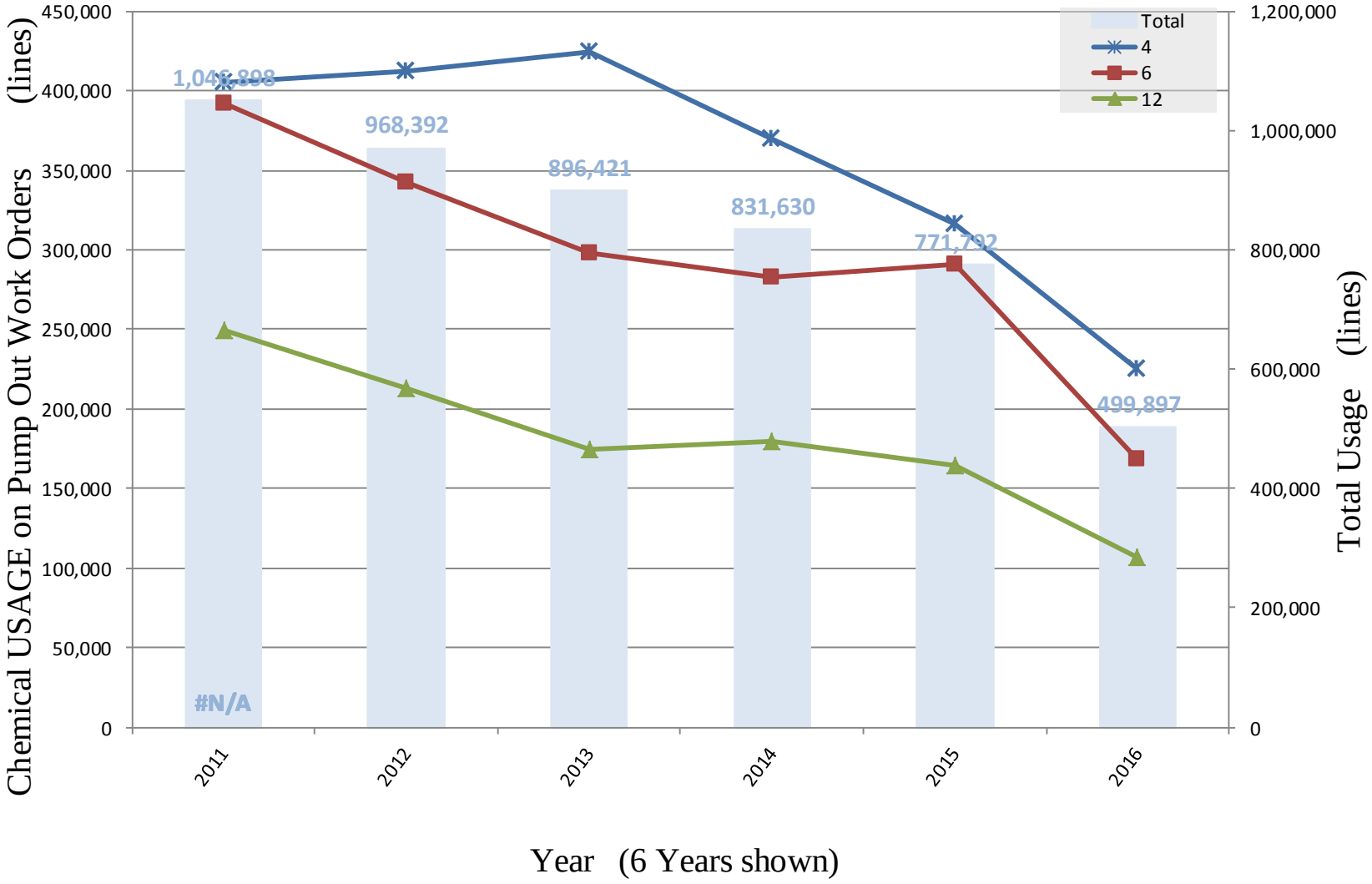
Coolant Pump Out Frequency

Pump Out Work Order USAGE - by Plant

Coolant used in the OH system (2620, 2600, 3105)



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Thank You