



CONOCO 80-90 W 238 Gais Mo x \$5.18 Gai = \$1,302.24 CONOCO HYDRO SUPER 68 683 Gais Mo x \$2.79 Gai = \$1,005.57 CONOCO HYDRO SUPER 68 683 CAIS MO X \$2.00 Gais Mo X \$2.70 Gai = \$1,005.57 CONOCO HYDRO SUPER 68 683 CAIS MO X \$2.00 Gais Mo X \$2.70 Gai = \$1,005.57 CONOCO HYDRO SUPER 68 683 CAIS MO X \$2.00 Gais Mo X \$2.00 Gai

OilPure is a Continuous Improvement in

1- MAINTENANCE LABOR & PARTS FOR HYDRAULIC SYSTEMS IN MOLDING.
2- DOWN TIME IN MOLDING FOR HYDRAULIC SYSTEMS REPAIR.
3- LOST PRODUCTION COSTS IN MOLDING.
4- DOWN TIME IN EXMET FOR POOR QUALITY GRID (paste box jams etc.)
5- SCRAP GENERATED IN EXMET BECAUSE OF POOR QUALITY GRID.
6- LOST PRODUCTION COSTS IN ASSEMBLY DUE TO LACK OF PARTS.
7- LITILITY COSTS.

EXMET MAINTENANCE COSTS AT 12 Hrs x \$45.00

1- Oil recycling machine model: AST-200
2- Portable oil purifier model: ss-50
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3- M3MS1/M3MS3/MPQ3/Q3/P2 PurePack Filter
4- M3MS1/MMS3/M3 PurePack for 55-50
5- Oil Strainer Element for AST-200 and SS-50
6- S Micron filter element
7- Vacuum Jet Dehydrator model: VJ-50
8- S Micron Filter Element model: CC-5

1 345,000,00
1 37,500,00
1 3540,00
1 5540,00
2 5170,00
2 590,00
4 518,000,00
1 TOTAL COST = \$72,640,00

\$22,866.84 \$24,000.00 \$7,344.00

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Delphi Battery uses OilPure as a Kaizen in their Lean Manufacturing process. This OilPure In-House Oil Reclamation project saves Delphi about \$72,640 annually. This oil reclamation recovered leak hydraulic oil from injection molders in the floor and recycle for reuse.

Delphi also has **MB-50** for oil dialysis throughout their plastic injection molders to keep the hydraulic oil continuously clean. This is part of **TPM** (**Total Productive Maintenance**) program to reduce hydraulic equipment downtime and production loss.



Delphi also installs **four dedicated units of VJ-50 Vacuum Jet Dehydrator** on each
Expander machine. Excessive coolant water
leaks into battery cell expanding process at
approximately **1.5 gallons each day**.

Each Expander has 30 gallons of gear lube oil reservoir. This excessive water demands that Delphi replaces new gear oil everyday.

VJ-50 removes about 1.5 to 2 gallons of water from Expander each day. So Delphi does not have to replace new oil due to excessive coolant water.

PROACTIVE MAINT.

1- OIL PURIFICATION SYSTEM FOR
1446 AND 1453 TO ELIMINATE
WATER AND ACID BUILD UP IN
LUBRICATION AND HYDRAULIC
SYSTEMS. (IMPLEMENTATION DATE TO BE
DETERMINED AFFER A PROJECT IS WRITTEN
AND SUBMITTED FOR APPROVAL)
2- INSTALLATION OF GRAPHITE
IMPREGNATED BUSHINGS ON C.O.S.
CASTING STATIONS TO ELIMINATE
THE NEED TO GREASE THEM
(IMPLEMENTATION IS BEING COMPLETED ON
EACH C.O.S. CASTING STATION WHEN IT IS
TORN DOWN FOR BIANNUAL REBUILD - 2
HAVE BEEN COMPLETED TO DATE)

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