



WHITMORE® DECATHLON™ HTC 930 Positive Displacement Spraying System Production Line 3



Location: Batang Kali Malaysia
Client: Health Care Company
Distributor: EsSMART Systems Sdn Bhd

Company

World-leading medical solutions company manufacturer latex gloves. Their main purpose is to improve the performance in healthcare across the world.

Product Recommendation DECATHLON™ HTC 930

HTC oil are blend of complex synthetic base fluids and revolutionary combination of synergistic antioxidants. HTC oils are formulated to protect against a corrosive atmosphere and resist oxidation at high temperatures.

OXIDATION RESISTANCE low formation of carbon, varnish, and other residues. Absolutely no abrasive deposits are formed when used within the recommended temperature range
ANTIWEAR chain wear is controlled by excellent fluid film and anti-wear properties of a temperature stable additive chemistry

Challenge

They were applying chain oil on the main conveyor with brush once weekly, with dry pins observed during maintenance caused by poor oil penetration.

Solution

Implemented an automated system to lubricate the chains with intervals of 2 hours every 2 days. with Decathlon HTC-930 chain oil.

Results

- Reduce 25% of energy consumption according to motor load recorded.
- 50% reduction of chain link replacement, improving up-time
- 66% of oil consumption saving from EsSMART's High Precision Automated Chain Lubrication System versus conventional Oil Dripping method.
- 90% of chain life extension

Equipment and Application

Installed a Positive Displacement Spraying System Production Line 3, replacing the manual lubrication procedure.

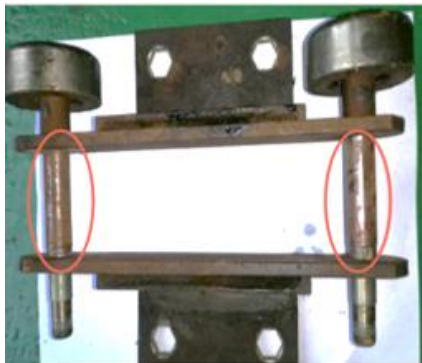
BEFORE



AFTER. Improved Chain Lube System



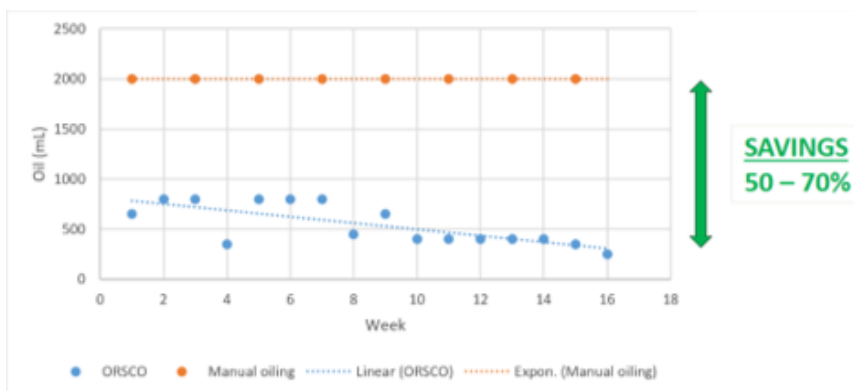
Monitoring Chart



Dried Pins observed during one of the maintenance activities –Poor oil penetration



Wetted Pins observed during one of the maintenance activities –Good Oil Penetration



Result analysis

ANALYSIS DATA

| PARAMETERS | CURRENT "Competitor" | WHITMORE / JET-LUBE | UNIT OF MEASURE |
|----------------------------------------------------------------------------------------|----------------------|---------------------|-----------------|
| Product cost per Unit of Measure (USD) : | \$ 11.00 | \$ 11.00 | USD |
| Cost of Preventive Maintenance: Product Application | \$ 495 | \$ 165 | USD |
| Cost of Corrective Maintenance | \$ 21,297 | \$ 12,170 | USD |
| Energy Savings | \$ 2,000 | \$ 1,787 | |
| Cost of monthly Preventive Maintenance: Parts Replacement | \$ 5,028.75 | \$ 1,807.14 | |
| Total monthly cost of maintenance per equipment (\$) | \$ 28,821 | \$ 15,929 | USD |
| Total projected cost per equipment in first year with initial load (\$) | \$ 345,852 | \$ 191,149 | USD |
| Total projected cost of maintenance for all equipments (including initial load) | \$ 1,037,557 | \$ 573,447 | USD |
| ANNUAL SAVINGS | \$ | 464,109 | USD |
| % ANNUAL SAVINGS WITH CSWI | | 44.7% | % |

“ Health Care Company, reported savings of \$907,910 USD more than 43% on the product line”

Work Engineer - ESSMART