

Hon Oak Steel Uped Powder Coat Line

Application: 3" Monorail Conveyor
Product: Castrol LubeCon 525



THE SITUATION

Hon Oak Steel facility installed anew powder paint system with new 5 stage wash, new powder environmental room, new ovens, and new conveyors. The conveyor was installed on two levels of the plant, processes were upstairs and load/unload downstairs. Two months after installation dirt rejects were at 40 cabinets per shift or 80 cabinets per day. Paint line management believed the dirt was partially to be blamed on the Castrol LubeCon Series 1/M lubricant.

BEFORE

- Brand new powder coat system was installed in plant with new 55 gallon ASC Bullzi central and a 3" MR2 lubricator using Castrol Lubecon Series 1/M.
- Monorail conveyor ran up and down from the first floor of the building to the second floor of the building.
- 80 file cabinets per day were being rejected due to dirt and were being reworked at a cost \$25 per unit.
- Lubrication intervals were set at 1 off cycle.

AFTER

- Castrol provided technical support and recommended Castrol LubeCon Series 525 lubricant as management was looking at synthetic lubricants.
- Lubrication intervals are set at 9 off cycles.
- Cabinet rejects have been reduced to 10 per day or 5 per shift.
- Lubricant volume need to lubricate convCyor was reduced from 3 pails of Castrol Lubecon Series 1/M to 1 pail Castrol LubeCon 525.

THE SOLUTION

- **The right Lubricant for the right application.**
- **The Castrol LubeCon 525 allowed for less lubricant applications and reduced the contaminates being applied to the conveyor.**
- **The chain lubrication system is monitored by Castrol's LubeCon Technical Sales Representative via by- monthly system inspections.**

CASE STUDY

YOUR ADVANTAGE IN AN INDUSTRIAL WORLD



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Castrol LubeCon Series 525 Reduced File Cabinet Rejects Over Castrol LubeCon Series 1/M

Previous conditions

- Tow month old paint system using Castrol Lubecon Series 1/M was producing 80 cabinet rejects per day.
- Estimated cost per unit to rework cabinet \$25 per cabinet..
- Minimum estimated cost per year \$520,000 plus \$7000 lubricant cost.
- **Total cost for one year: \$527,000.**

Current LubeCon system

- Castrol LubeCon Series 525 has replaced Castrol Lubecon Series 1/M.
- Cabinet rejects were reduced to 10 per day at \$25 per unit.
- Castrol LubeCon lube usage is 1 pail per month at a cost of \$375 per pail.
- **Total costs for one year: \$65,000 plus \$4,500 in lubricant cost..**

Estimated cost savings for one year: \$457,000

Estimated cost savings over three years: \$1,372,500

Additional non-measurable savings

- Regular onsite Castrol technical support to ensure control of cost and program success.
- Data collection to identify potential process problems.



CASE STUDY

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