

# Hydraulic Oil Life Greatly Extended

## TIRE MANUFACTURING (USA)

### MIXING DEPARTMENT

#### Castrol Hyspin® AWS 46

**ANNUAL SAVINGS: \$10,805**



### THE SITUATION

A commodity type hydraulic oil was used by a major tire manufacturer in the Mixing Department hydraulic systems. It was an inexpensive hydraulic fluid with low oxidation resistance.

The oil was changed every 2 - 3 months, due to the significant viscosity increase as indicated by oil sample reports.

- Oil was used in 6 hydraulic systems with a total oil capacity of 1170 gallons.
- In order to keep the oil in acceptable condition, it was changed a minimum of 4 times per year due to the oxidation.
- A minimum of 2-3 man-hours of maintenance labor was used to change oil in the small systems with more needed for the larger ones.

### BEFORE

- Commodity type hydraulic oil
- Low oxidation resistance
- Oil changed 4 times per year

### AFTER

- Castrol Hyspin AWS 46 – high oxidation resistance hydraulic oil
- Oil life extended 4 times
- Oil changed 1 time per year

**Castrol Hyspin AWS 46  
reduced hydraulic oil  
consumption by four (4) times.**

### THE SOLUTION

- The customer was looking for a better hydraulic oil with longer service life to lower consumption, overall maintenance, and other related costs. Castrol recommended Hyspin AWS 46 hydraulic oil. Service life of the Hyspin AWS 46 in properly maintained hydraulic systems is 3-5 times longer than previously used oil.

	HYDRAULIC OIL	Before Castrol	After Castrol
1	Total Volume Used	4,680 gal.	1,170 gal.
2	Total Oil Cost	\$14,040	\$4,855
3	Change-Out Frequency	Quarterly	Annually
4	Oil Change Labor	\$2,160	\$540
	Total Cost	\$16,200	\$5,395
	TOTAL SAVINGS	-	\$10,805

**Note:** The savings **do not reflect** the additional expense reductions expected from lower repair and labor costs, downtime costs, and inventory handling costs.

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## RECOMMENDATIONS

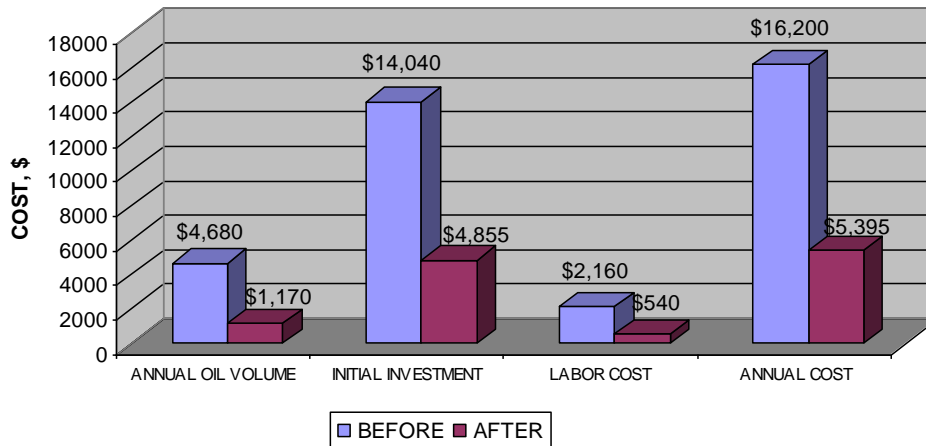
The extended service life of Castrol Hyspin AWS 46 results from careful selection of the highest quality petroleum base oil and the use of a proprietary, non-depletive additive system that minimizes oxidation, fluid degradation, and loss of performance characteristics.

## CONCLUSION

- Customer's initial investment in Castrol oil was \$4,855.
- Castrol Hyspin AWS 46 provided \$10,805 annual savings.
- Return On Investment (ROI) ratio of 2.2:1.



**COST SAVINGS AT TIRE PLANT MIXING DEPARTMENT  
with Hyspin AWS 46 hydraulic fluid**



## OTHER POTENTIAL APPLICATIONS

Castrol Hyspin AWS premium type hydraulic oils are recommended for any hydraulic system working at medium to heavy duty operating conditions.

For hydraulic systems with heavy to extremely heavy duty conditions, Castrol Tribol 943 AW High Performance oil is recommended.

Tribol 943 AW, having unmatched oxidation resistance, is capable to extend oil life 8+ times.

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