

# EXTENDED COMPRESSOR OIL CHANGE INTERVALS

## MACHINERY MANUFACTURING (USA)

### OIL FIELD EQUIPMENT

Castrol Tribol® CS 1750/46 compressor oil\*

**ANNUAL SAVINGS: \$4,035**



#### THE SITUATION

- A leading manufacturer of oil field and gas equipment was running 3 Sullair rotary screw compressors.
- Automatic transmission fluid (ATF) was used for compressor lubrication.
- Oil was changed 4 times per year due to rapid oil oxidation.
- Each compressor had an oil capacity of 40 gallons.
- Time to change oil in one compressor was 3 hours at a labor rate of \$20 per hour.

#### BEFORE

- Generated 480 gallons of waste oil per year for 8 years = 3,840 gallons
- Oil change labor was 36 man-hours per year for 8 years = 288 hours
- No engineering support provided by lube vendor.

#### AFTER

- No oil changes in 8 years.
- Generated no waste in 8 years.
- No man-hours to change oil in 8 years.
- Complete engineering support provided at no cost to the customer.

#### THE SOLUTION

- Customer was looking for ways to extend changeover interval in order to reduce oil usage and oil change labor.
- Sample analysis by Castrol technical support indicated significant oil oxidation.
- Castrol Tribol CS 1750/46 Synthetic Blend Compressor Oil was recommended to extend the oil life.
- Compressors were changed to Tribol CS 1750 eight years ago and were monitored by oil analysis to ensure continued suitability.
- Complete engineering support was provided at no cost, including regular oil samples to monitor oil and machine condition.

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## RECOMMENDATIONS

Recommended for use in most types of rotary compressors, Castrol Tribol CS 1750 Synthetic Blend Compressor Oil has exceptional oxidation resistance, minimizes varnish & carbonaceous residues on compressor components, gas passages, intercoolers, and other components.

## CONCLUSION

- Oil change interval was greatly extended.
- Total savings for 8 years - \$32,275
- Annual savings - \$4,035



### Cost Savings for eight (8) years

	BEFORE	AFTER
LUBRICANT	ATF	Tribol CS 1750
UNIT COST	\$250/drum	\$1,132/drum
CHANGE FREQUENCY	4 times per year	No change for 8 yrs
VOLUME USED	3840 gal	120 gal
FLUID COST	\$17,644	\$2,469
LABOR COST	\$5,760	\$180
WASTE DISPOSAL COST	\$11,520	\$0
TOTAL COST FOR 8 YEARS	\$34,924	\$2,649
8-YEAR COST SAVINGS	----	\$32,275

### OTHER POTENTIAL APPLICATIONS

**Castrol Tribol CS 1750 Synthetic Blend Compressor Oils** are primarily intended for use in stationary flooded rotary compressors but are also suitable for portable flooded rotary compressors. Additionally, Castrol Tribol CS 1750/46 and 68 are formulated for use in non-crosshead type reciprocating or drip-feed reciprocating and rotary compressors.

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