Hydraulic Oil
Bulk Tank - Telemetric Readings

Oil Filtration Systems

INDUSTRY

CJC™ Application Study

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2004

CUSTOMER

KLM Equipment Services.
Located at Schiphol Airport, Amsterdam.

THE APPLICATION

Hydraulic oil in a bulk storage tank with a gross volume of 3,000 litres. Three-way co-operation between the end-user, the oil company and filter manufacturer to obtain cost savings.
ChevronTexaco has an ELC program that is implementing just-in-time deliveries according to the demand and/or usage of its customers. Telemetric readings of the stock level are a necessity to be able to respond correctly. Advanced logistic technology and knowledge hand-in-hand with accurate groundwork determine success and satisfaction of the customers.

THE PROBLEM

Sludge and high water content in the tank, due to years of congregation, resulted in the fact that the oil was not appropriate for this purpose. The main objective of the project was to obtain and maintain a high oil quality that would lead to cost savings in the long term. Filling the ground equipments with new clean oil is a good start and is bound for an optimal situation.

THE SOLUTION

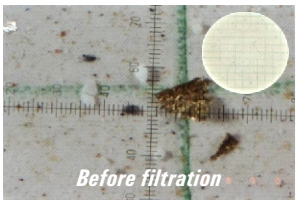
CJC™ FineFilter LG 15/25 L with pressure sensor was connected to the ELC control box to monitor the pressure.
CJC™ FilterInsert BG 15/25 (3 micron absolute) with a contamination holding capacity of ½ litre of fluid and 2 litres of particles ensured clean oil in the bulk tank round the clock. When the filter insert is nearly saturated the system will signal telemetrically to the designated authorities. This provides a carefree solution as well as a clean oil guarantee.

THE RESULT

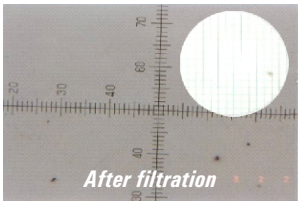
Starting with a high contamination level in the oil, within 2 weeks an oil sample showed a cleanliness level corresponding to an ISO code of 15/13/9. Intermediate sampling also showed that the condition of the oil has been improved irrespective of the batches and the volume of oil in the bulk tank. The stock level has been reliable and exceeds the demand and expectancy of the customer.

The KLM Bulk Tank

CJC™ FineFilter LG 15/25 L



Before filtration

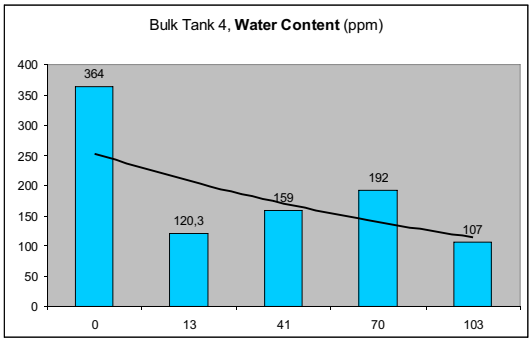


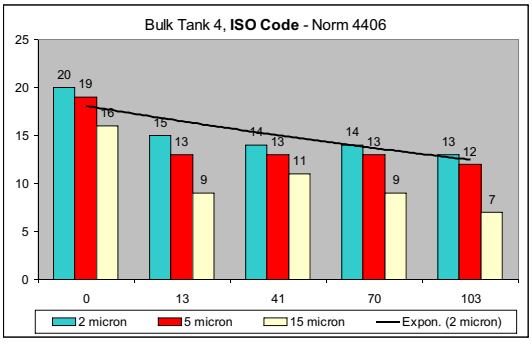
After filtration

THE RESULT

Date	Days	Particle Count 2 µm	5 µm	15 µm
07.06.02:	0	861,875	418,239	55,103
18.07.02:	41	15,383	7,128	1,652
17.09.02:	103	7,512	2,814	85

Source: Labo Reports, Filtrex Services Nederland





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