

# **CJC<sup>™</sup>** Application Study

### CUSTOMER

ZEN Petroleum Ltd, Ghana, supplier of diesel to Tarkwa Gold Mine.

#### SYSTEM

System:

Oil type:

Palle Maschoreck C.C.JENSEN A/S

**Application Study** 

written by:

Denmark

2014

60,000 L receiving tank **Transfer into:** 50,000 L day tank Diesel oil Daily consumption: 50,000 L

# **PROBLEM**

The incoming diesel was very dirty - with an ISO code 23/20/19, plus existing sludge/dirt in old tanks. Blocks onboard fuel filters and causes high injector consumption.

#### SOLUTION

A CJC<sup>™</sup> Fine Filter HW 427/108 with CJC<sup>™</sup> Oil Contamination Monitor, OCM15 was installed with CJC<sup>™</sup> Filter Insert F. Dirt holding capacity: Minimum 64 kg dirt and 32

liters of water.

The CJC<sup>™</sup> Oil Filter kidney loops the receiving tank and transfers diesel to the daytank.

#### BENEFITS

After filtration, the diesel is 11 times cleaner than at arrival. Incoming diesel has an ISO cleanliness level of 23/20/19 – outgoing diesel after filtration is improved to an

### **ISO** cleanliness level of 12/10/5

First insert change confirmed that weight of used inserts exceeds 10 kilos each with a dirt holding capacity of more than 6 kg dirt / filter insert.

The end user has more than tripled lifetime of onboard fuel filters.

ZEN Petroleum has since installed CJC<sup>™</sup> Oil Filters on four other sites and all new ZEN fuel contracts are delivered with a CJC<sup>™</sup> Oil Filter.

Furthermore, the end user has installed CJC<sup>™</sup> Oil Filters on their crusher and mills.

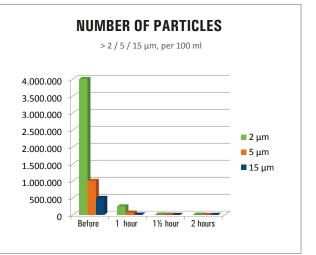


Tarkwa Gold Mine, Ghana CJC™ Filter Insert change carried out on the mine site

#### RESULT



CJC™ Oil Contamination Monitor, OCM15 monitoring the contamination level of the diesel. Incoming diesel was analyzed to 23/20/9 and after very short filtration period the ISO code was reduced to a very low level of 12/10/5



## RESULT

pr. 100 ml	BEFORE Oil Filtration	AFTER 1 hour	AFTER 1½ hour	AFTER 2 hours
> 2 micron	4,000,000	250,000	8,000	4,000
> 5 micron	1,000,000	64,000	2,000	1,000
> 15 micron	500,000	8,000	130	64
ISO Code	23/20/19	18/16/13	13/11/7	12/10/5

© 2016 C.C.JENSEN A/S ASMI4019-UK Mining Storage Tanks 20.09.2016

**C.C.JENSEN A/S** Løvholmen 13 • DK-5700 Svendborg • Denmark Phone: +45 6321 2014 • Fax: +45 6222 4615 sales@cjc.dk • www.cjc.dk