

**ISO 9001:2008**



**ANAC references : NNDC 0036 0036**

**Your references :**

Machine: Hydraulic system / 88-01-01 / CRANE #1 - HYDRAULICS



**Make and type:**

Machine: .....

SPECIMEN / ZZ-

Diagnosis date: 30 april 2013

Oil : Total Equivis ZS 46

	VISIO	VISIO	VISIO	VISIO	VISIO
	23-JAN-10	26-FEB-11	13-JUN-11	24-SEP-11	28-FEB-13
Sample date					
Sample Number	70002848	70008236	70002851	70002861	70010421
Interm. sample		X			
Working time	700 H	1400 H	2100 H	2800 H	3500 H
Mileage oil	700 H	700 H	700 H	700 H	700 H

Wear						
Iron	ppm	< 1	5	< 1	< 1	1
Lead	ppm	< 1	< 1	< 1	< 1	< 1
Copper	ppm	1	< 1	1	1	< 1
Tin	ppm	< 1	< 1	2	< 1	3
Chromium	ppm	< 1	< 1	< 1	< 1	< 1
Aluminium	ppm	< 1	< 1	< 1	< 1	< 1
Nickel	ppm	< 1	< 1	< 1	< 1	< 1

Contamination						
Silicon	ppm	< 1	< 1	1	1	< 1
Water	%	OK	OK	OK	OK	OK
Filtration		Photo	Photo	Photo	Photo	Photo

Oil						
A.N.	mgKOH/g	0.8	0.5	0.4	0.6	0.50
Visc. 40°C	mm2/s	39.7	39.8	39.2	39.1	41.9
Visc. 100°C	mm2/s	7.1	7.0	6.6	7.0	7.4
Visc. Index		142	137	122	141	143

**Interpretation of the diagnosis**

- The 5 microns filtration shows :
- Metallic chips -
- Varnish -
- Oxydation products -
- The oil change will have eliminated the contamination.
- Monitor thoroughly the evolution.

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TOTAL

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1 cm = 52 µm

