



## CUSTOMER

W.F. VOSKERO  
Aggeliki Kritikou

## SAMPLE DATA

Ref: VEST00649-0001-S50.1

Descrip.: Gearbox - GBX

Tmk:

Model: V-52

Serial N.: 18507

Sample Ref.: 17/06/2016-1070942

Oil label:

Date sampled: 24/02/2016

Oil type: CASTROL OPTIGEAR SYNTHETIC X 320

S/Ref. :

Lab. date: 10/06/2016

Machine serv.:

Oil serv.:

Adds (I):

Capac.(I):

## LAST SAMPLE CONCLUSIONS

The oil is fit for further use. There are no symptoms of contamination or abnormal wear.



## RESULTS

Date sampled: 24/02/2016 22/07/2015 01/12/2014 04/04/2014

Sample Ref.: 1070942 1016837 938136 872646

Machine serv.:

Oil serv.:

Report date: 20/06/2016 23/11/2015 29/01/2015 09/05/2014

## Status

Oxidation (A/cm) <1 <1 <1 <1

Appearance (Adim) Dark transp. Dark transp. Bright Transp. Bright Transp.

Water content (mg/kg) 755 442 240 258

TAN (mgr KOH/gr) 1.09 1.09 1.22 1.25

Visc. Index (Adim) 149 151 151 150

Viscosity 100°C (cst) 34.6 34.72 34.33

Viscosity 100°C (cst) 33.73

Viscosity 40°C (cst) 324.9 324.8 323.99

Viscosity 40°C (cst) 317.4

## Particles count

ISO 4406/99 (Adim) 21/19/13 17/15/10 17/15/11 17/16/12

Part > 4 microns (100ml) 1552300 66483 103808 113104

Part > 6 microns (100ml) 374158 18516 17101 32868

Part > 14 microns (100ml) 4911 630 1189 2642

## Additives

B Content (ppm) <30 0 0

Ba Content (ppm) 0 0 0

Ca Content (ppm) 1552 1567 1430 1434

Mg Content (ppm) 6 6 3 6

P Content (ppm) 287 304 278 293

Zn Content (ppm) 2 1 1 1

## Contamination and wear metals

Al Content (ppm) 0 3 0 0

Cr Content (ppm) 0 0 0 0

Cu Content (ppm) 0 0 1 0

Fe Content (ppm) 1 2 1 1

K Content (ppm) 1 0 1 0

Mo Content (ppm) 820 831 728 866

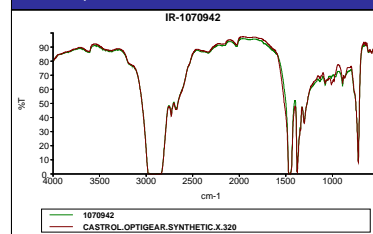
Na Content (ppm) 1 2 1 3

Ni Content (ppm) 0 0 0 0

Pb Content (ppm) 0 0 0 0

Si Content (ppm) 6 7 7 7

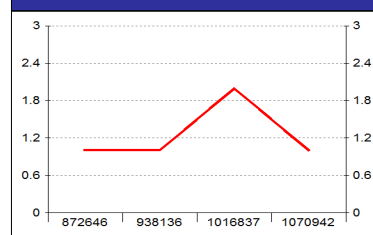
## FTIR Spectrum



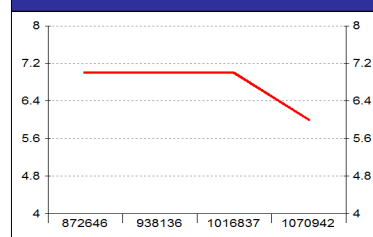
## Sample:



## Fe Content



## Si Content



Performed by: Manuel Bilbao

17/06/2016

Status: Normal Caution Alarm

Tests done from 09/06/2016 to 20/06/2016

NOTE: The obtained results only correspond to the tested samples. This report can not be reproduced neither partially nor totally without the express written permission of the laboratory that emits it. Sample will be destroyed 15 DAYS after the emission of this report.

The uncertainties of the tests are calculated and available to customers

IK4 - TEKNIKER does not provide any warranty expressed or implied is made against failure of this equipment. The reported recommendations are based on interpretations of the generated test results, equipment historical data and the information supplied by the customer.

This service is to aid preventive/predictive maintenance actions only.

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