



## CUSTOMER

W.F. VOSKERO  
Aggeliki Kritikou

## SAMPLE DATA

Ref: VEST00649-0007-S50.1

Descrip.: Gearbox - Gearbox

Tmk:

Model: V-52

Serial N.: 18513

Sample Ref.: 17/06/2016-1070943

Oil label:

Date sampled: 09/03/2016

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: 09/03/2016 01/07/2015 05/12/2014 16/05/2014

Sample Ref.: 1070943 1016847 938138 886433

Machine serv.:

Oil serv.:

Report date: 20/06/2016 23/11/2015 29/01/2015 02/07/2014

## Status

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

Appearance (Adim) Dark transp. Dark transp. Dark transp. Dark transp.

Water content (mg/kg) 582 436 254 155

TAN (mgr KOH/gr) 1.22 1.15 1.23 1.39

Visc. Index (Adim) 153 153 151 152

Viscosity 100°C (cst) 34.57 34.83 34.61 34.08

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Viscosity 40°C (cst) 317.6 321.4 324.1 315.22

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## Particles count

ISO 4406/99 (Adim) 18/16/12 15/14/11 15/13/10 15/12/9

Part > 4 microns (100ml) 140162 29834 23684 18135

Part > 6 microns (100ml) 61508 11218 6462 3157

Part > 14 microns (100ml) 3611 1883 734 309

## Additives

B Content (ppm) <30 0 0 0

Ba Content (ppm) 0 0 0 0

Ca Content (ppm) 1665 1519 1419 1395

Mg Content (ppm) 6 5 4 8

P Content (ppm) 309 283 277 268

Zn Content (ppm) 3 0 1 1

## Contamination and wear metals

Al Content (ppm) 0 3 0 0

Cr Content (ppm) 0 0 0 0

Cu Content (ppm) 1 0 0 0

Fe Content (ppm) 1 0 1 1

K Content (ppm) 1 0 1 1

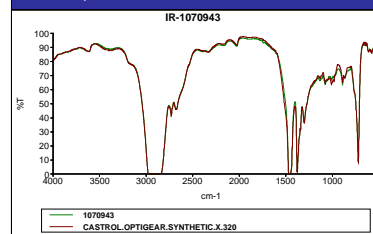
Mo Content (ppm) 895 807 726 731

Na Content (ppm) 0 0 2 1

Ni Content (ppm) 0 0 0 0

Pb Content (ppm) 0 0 0 0

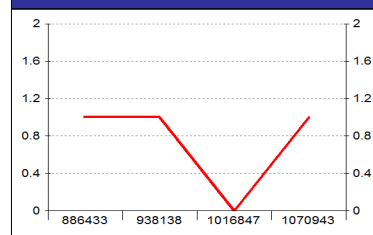
## FTIR Spectrum



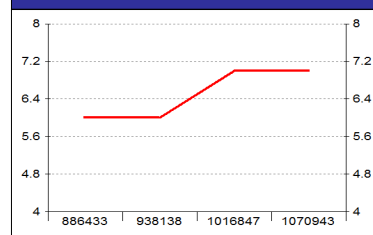
## Sample:



## 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

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

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## Contamination and wear metals

Si Content (ppm) 7 7 6 6

Sn Content (ppm) 2 3 2 1

## Particles

PQ Index (Adim) 1 3 6 1

Performed by: Manuel Bilbao

17/06/2016

Status: Normal **Caution** **Alarm**  
Tests done from 09/06/2016 to 20/06/2016



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