

Machine Id  
**SGC QA/QC**  
 Component  
**Motor a Gas QA/QC**  
 Fluid

**DIAGNOSIS**

**SAMPLE INFORMATION**

Lab Number	Client Info	<b>24010756</b>	24010756	24010613
Sample Number	Client Info	<b>LL224010756</b>	LL224010756	LL224010613
Sample Date	Client Info	<b>08 Jan 2024</b>	08 Jan 2024	06 Jan 2024
Oil Changed	Client Info	<b>Not Changd</b>	Not Changd	Not Changd
Sample Status		<b>SEVERE</b>	---	SEVERE

**PARTICLE QUANTIFIER (PQ)**

Densidad Ferrosa - PQI	ASTM D8184	<b>3</b>	---	3
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**ICP SPECTROMETRIC ANALYSIS**

Element	Unit	ASTM	Value	Limit	Comparison
Hierro - Fe	mg/kg (ppm)	ASTM D5185	<b>6</b>	---	1
Cromo - Cr	mg/kg (ppm)	ASTM D5185	<b>1</b>	---	1
Níquel - Ni	mg/kg (ppm)	ASTM D5185	<b>1</b>	---	1
Titanio - Ti	mg/kg (ppm)	ASTM D5185	<b>1</b>	---	1
Plata - Ag	mg/kg (ppm)	ASTM D5185	<b>1</b>	---	1
Aluminio - Al	mg/kg (ppm)	ASTM D5185	<b>5</b>	---	5
Plomo - Pb	mg/kg (ppm)	ASTM D5185	<b>2</b>	---	1
Cobre - Cu	mg/kg (ppm)	ASTM D5185	<b>1</b>	---	1
Estaño - Sn	mg/kg (ppm)	ASTM D5185	<b>1</b>	---	1
Vanadio - V	mg/kg (ppm)	ASTM D5185	<b>1</b>	---	1
Silicio - Si	mg/kg (ppm)	ASTM D5185	<b>5</b>	---	1
Sodio - Na	mg/kg (ppm)	ASTM D5185	<b>1</b>	---	1
Potasio - K	mg/kg (ppm)	ASTM D5185	<b>1</b>	---	1
Boro - B	mg/kg (ppm)	ASTM D5185	<b>5</b>	---	2
Bario - Ba	mg/kg (ppm)	ASTM D5185	<b>1</b>	---	1
Molibdeno - Mo	mg/kg (ppm)	ASTM D5185	<b>1</b>	---	1
Manganeso - Mn	mg/kg (ppm)	ASTM D5185	<b>1</b>	---	1
Magnesio - Mg	mg/kg (ppm)	ASTM D5185	<b>5</b>	---	4
Calcio - Ca	mg/kg (ppm)	ASTM D5185	<b>1675</b>	---	1629
Fósforo - P	mg/kg (ppm)	ASTM D5185	<b>302</b>	---	285
Zinc - Zn	mg/kg (ppm)	ASTM D5185	<b>369</b>	---	355
Litio - Li	mg/kg (ppm)	ASTM D5185	<b>1</b>	---	1

**PERCENT FUEL**

Combustible en lubricantes - FOIL	g/100g (%)	ASTM D7593	<b>1.0</b>	---	▲ 3.6
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**KARL FISCHER**

Agua (Karl Fischer)	mg/kg (ppm)	ASTM D6304(b)	<b>1326.4</b>	---	1516.1
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**GLYCOL CONTAMINATION TEST**

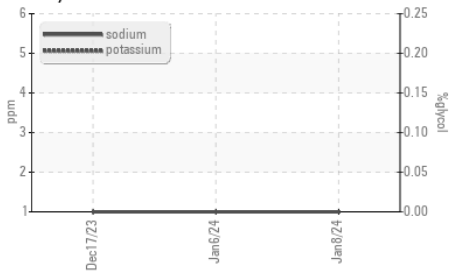
Glicol en lubricantes	µg/g (ppm)	ASTM D7922	<b>820</b>	---	1106
Etilenglicol	µg/g (ppm)	ASTM D7922	<b>820</b>	---	1106
Propilenglicol	µg/g (ppm)	ASTM D7922	<b>&lt; 50</b>	---	< 50

**INFRA-RED ANALYSIS**

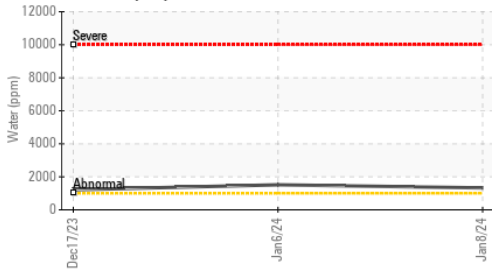
Hollin %	g/100g (%)	ASTM E2412	<b>0.1</b>	---	0.1
Oxidación	Abs/0,1mm	ASTM E2412	<b>13.00</b>	---	12.60
Nitración	Abs/0,1mm	ASTM E2412	<b>6.80</b>	---	6.60
Sulfatación	Abs/0,1mm	ASTM E2412	<b>19.70</b>	---	19.60

# OIL ANALYSIS REPORT

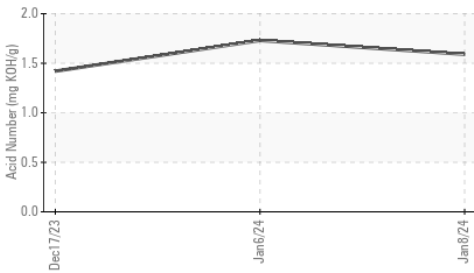
## Glycol Contamination



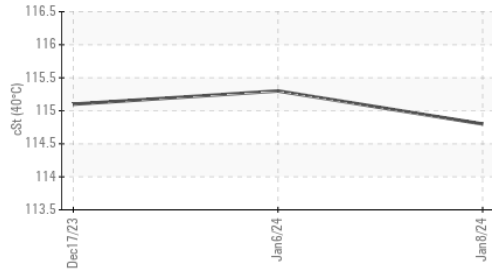
## Water (KF)



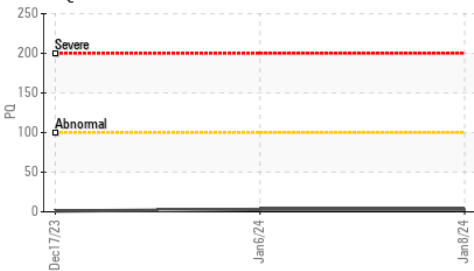
## Acid Number



## Viscosity @ 40°C



## PQ



Glicol (Presencia) % ASTM E2412 **0.00** --- 0.00

## ACID NUMBER (AN) MANUAL

TAN - Acidez mineral pos/neg ASTM D974 **1.59** --- 1.73

## ACID NUMBER (AN) AUTOMATED

Número Ácido - TAN mgKOH/g ASTM D974 **1.59** --- 1.73

## BASE NUMBER (BN)

Número Básico - TBN mgKOH/g ASTM D2896 **3.60** --- 3.40

## I-PH

pH inicial Scale 0-14 ASTM D974 **5.30** --- 4.90

## VISCOSITY @ 40°C

Viscosidad a 40°C mm²/s (cSt) ASTM D7279 **114.8** --- 115.3

## VISCOSITY @ 100°C

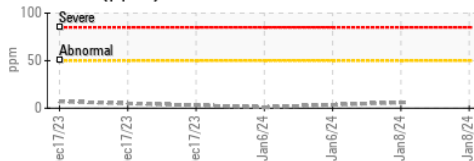
Viscosidad a 100°C mm²/s (cSt) ASTM D7279 **12.57** --- 12.7

## VISCOSITY INDEX (VI)

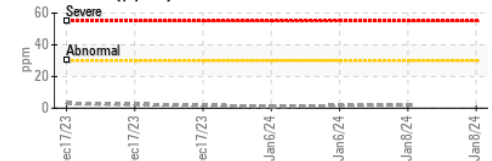
Índice de viscosidad Scale ASTM D2270 **101** --- 102

## GRAPHS

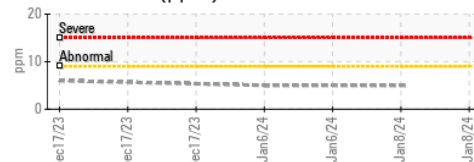
### Iron (ppm)



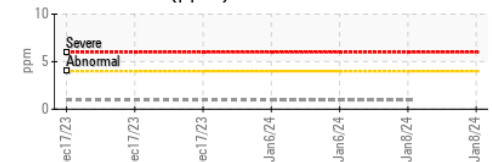
### Lead (ppm)



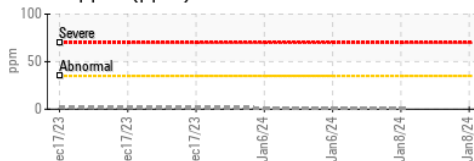
### Aluminum (ppm)



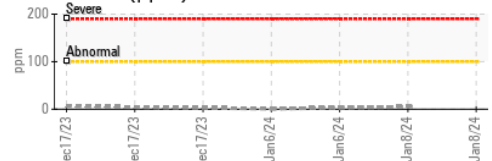
### Chromium (ppm)



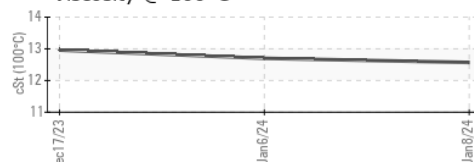
### Copper (ppm)



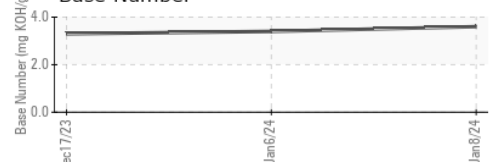
### Silicon (ppm)



### Viscosity @ 100°C



### Base Number



Laboratory : WearCheck -  
 Sample No. : LL224010756  
 Lab Number : 24010756  
 Unique Number : 16071931

Received : 10 Jan 2024  
 Tested : 24 Jan 2024  
 Diagnosed : 24 Jan 2024 - Andy Lantos

LABORATORIO LANTOS S.A. / SGC QA/QC

Test Package : MOB 1 ( Additional Tests: FT-IR, Glycol, i-pH, ICP, KF, KV100, KV40, PercentFuel, PQ, TAN Auto, TAN  
 To discuss this sample report, contact Customer Service at 1-800-268-2131.

Contact: Service Manager

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

T:  
F: