

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

DIAGNOSIS
SAMPLE INFORMATION

Lab Number	Client Info	24010613	24010613	23120943
Sample Number	Client Info	LL224010613	LL224010613	LL223120943
Sample Date	Client Info	06 Jan 2024	06 Jan 2024	17 Dec 2023
Oil Changed	Client Info	Not Changd	Not Changd	Not Changd
Sample Status		SEVERE	---	SEVERE

PARTICLE QUANTIFIER (PQ)

Densidad Ferrosa - PQI	ASTM D8184	3	---	1
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ICP SPECTROMETRIC ANALYSIS

Element	Unit	ASTM	Result	Limit
Hierro - Fe	mg/kg (ppm)	ASTM D5185	1	7
Cromo - Cr	mg/kg (ppm)	ASTM D5185	1	1
Níquel - Ni	mg/kg (ppm)	ASTM D5185	1	1
Titanio - Ti	mg/kg (ppm)	ASTM D5185	1	1
Plata - Ag	mg/kg (ppm)	ASTM D5185	1	1
Aluminio - Al	mg/kg (ppm)	ASTM D5185	5	6
Plomo - Pb	mg/kg (ppm)	ASTM D5185	1	3
Cobre - Cu	mg/kg (ppm)	ASTM D5185	1	2
Estaño - Sn	mg/kg (ppm)	ASTM D5185	1	1
Vanadio - V	mg/kg (ppm)	ASTM D5185	1	1
Silicio - Si	mg/kg (ppm)	ASTM D5185	1	6
Sodio - Na	mg/kg (ppm)	ASTM D5185	1	1
Potasio - K	mg/kg (ppm)	ASTM D5185	1	1
Boro - B	mg/kg (ppm)	ASTM D5185	2	5
Bario - Ba	mg/kg (ppm)	ASTM D5185	1	1
Molibdeno - Mo	mg/kg (ppm)	ASTM D5185	1	1
Manganeso - Mn	mg/kg (ppm)	ASTM D5185	1	1
Magnesio - Mg	mg/kg (ppm)	ASTM D5185	4	5
Calcio - Ca	mg/kg (ppm)	ASTM D5185	1629	1637
Fósforo - P	mg/kg (ppm)	ASTM D5185	285	327
Zinc - Zn	mg/kg (ppm)	ASTM D5185	355	367
Litio - Li	mg/kg (ppm)	ASTM D5185	1	1

PERCENT FUEL

Combustible en lubricantes - FOIL	g/100g (%)	ASTM D7593	▲ 3.6	---	▲ 4.8
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KARL FISCHER

Agua (Karl Fischer)	mg/kg (ppm)	ASTM D6304(b)	◆ 1516.1	---	◆ 1214.7
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GLYCOL CONTAMINATION TEST

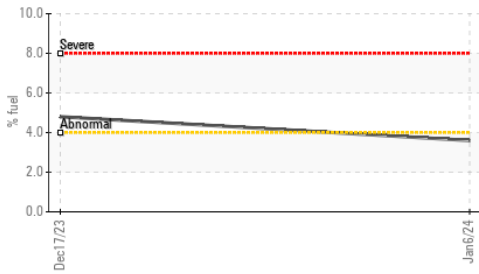
Glicol en lubricantes	µg/g (ppm)	ASTM D7922	1106	---	1037
Etilenglicol	µg/g (ppm)	ASTM D7922	1106	---	1037
Propilenglicol	µg/g (ppm)	ASTM D7922	< 50	---	< 50

INFRA-RED ANALYSIS

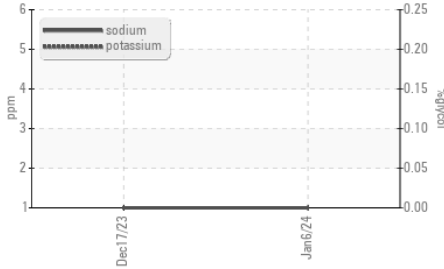
Hollin %	g/100g (%)	ASTM E2412	0.1	---	0.1
Oxidación	Abs/0,1mm	ASTM E2412	12.60	---	12.80
Nitración	Abs/0,1mm	ASTM E2412	6.60	---	6.80
Sulfatación	Abs/0,1mm	ASTM E2412	19.60	---	20.30

OIL ANALYSIS REPORT

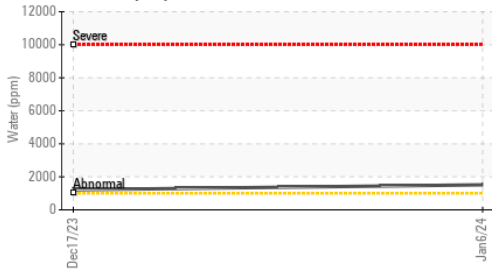
Fuel Dilution



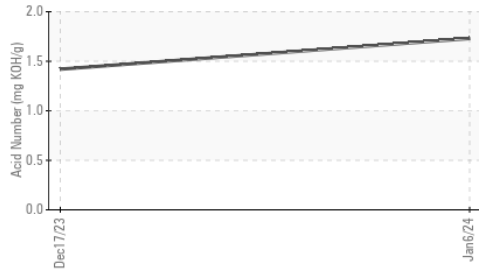
Glycol Contamination



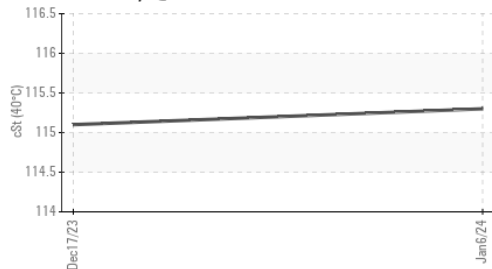
Water (KF)



Acid Number



Viscosity @ 40°C



Glicol (Presencia)	%	ASTM E2412	0.00	---	0.00
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ACID NUMBER (AN) MANUAL

TAN - Acidez mineral	pos/neg	ASTM D974	1.73	---	1.42
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ACID NUMBER (AN) AUTOMATED

Número Ácido - TAN	mgKOH/g	ASTM D974	1.73	---	1.42
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BASE NUMBER (BN)

Número Básico - TBN	mgKOH/g	ASTM D2896	3.40	---	3.30
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I-PH

pH inicial	Scale 0-14	ASTM D974	4.90	---	5.00
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VISCOSITY @ 40°C

Viscosidad a 40°C	mm²/s (cSt)	ASTM D7279	115.3	---	115.1
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VISCOSITY @ 100°C

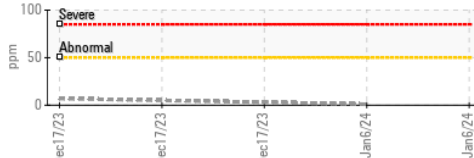
Viscosidad a 100°C	mm²/s (cSt)	ASTM D7279	12.7	---	12.96
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VISCOSITY INDEX (VI)

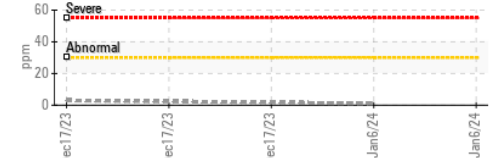
Índice de viscosidad	Scale	ASTM D2270	102	---	106
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GRAPHS

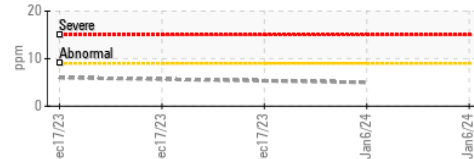
Iron (ppm)



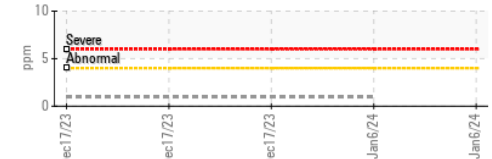
Lead (ppm)



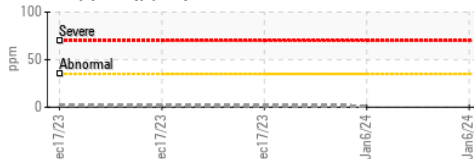
Aluminum (ppm)



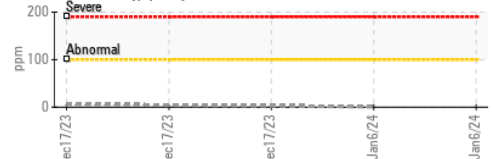
Chromium (ppm)



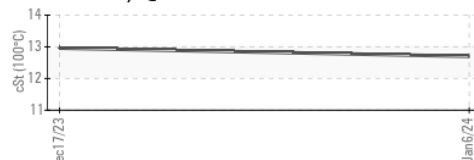
Copper (ppm)



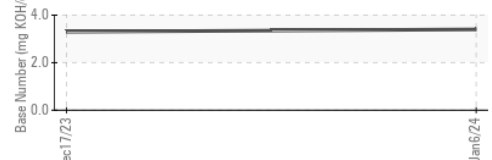
Silicon (ppm)



Viscosity @ 100°C



Base Number



Laboratory : WearCheck -
 Sample No. : LL224010613
 Lab Number : **24010613**
 Unique Number : 16071935

Received : 08 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: