OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area
GUAY SON
Machine Id
IBACO CHUTITO XXVIII AUX-1
Component
Diesel Fuel
Fluid
MAG1 15W40 C14 PLUS/SL (--- LTR)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

Contaminants

There is a high amount of particulates present in the fuel. Moderate concentration of visible dirt/debris present in the fuel. There is no Bacteria, Yeast and/or Fungus indicated in the sample. The water content is negligible.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KL04599963**	---	---
Sample Date		Client Info		**02 Nov 2018**	---	---
Machine Age	days	Client Info		**51**	---	---
Sample Status				**ABNORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>2	**<1**	---	---
Chromium	ppm	ASTM D5185m	>2	**0**	---	---
Nickel	ppm	ASTM D5185m	>2	**0**	---	---
Titanium	ppm	ASTM D5185m	>2	**0**	---	---
Silver	ppm	ASTM D5185m	>2	**0**	---	---
Aluminum	ppm	ASTM D5185m	>2	**0**	---	---
Lead	ppm	ASTM D5185m	>2	**1**	---	---
Copper	ppm	ASTM D5185m	>2	**0**	---	---
Tin	ppm	ASTM D5185m	>2	**2**	---	---
Antimony	ppm	ASTM D5185m	>2	**0**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

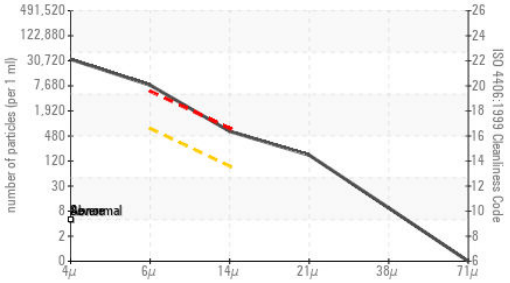
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	---	---
Barium	ppm	ASTM D5185m		**0**	---	---
Molybdenum	ppm	ASTM D5185m		**<1**	---	---
Manganese	ppm	ASTM D5185m		**0**	---	---
Magnesium	ppm	ASTM D5185m		**0**	---	---
Calcium	ppm	ASTM D5185m		**0**	---	---
Phosphorus	ppm	ASTM D5185m		**0**	---	---
Zinc	ppm	ASTM D5185m		**0**	---	---
Sulfur	ppm	ASTM D5185m		**51**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>10	**<1**	---	---
Sodium	ppm	ASTM D5185m		**0**	---	---
Potassium	ppm	ASTM D5185m	>20	**0**	---	---
Water	%	ASTM D6304	>0.05	**0.001**	---	---
ppm Water	ppm	ASTM D6304		**10**	---	---

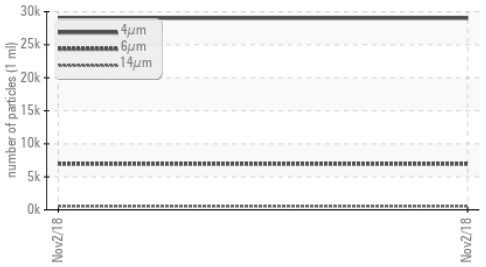
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**29030**	---	---
Particles >6µm		ASTM D7647	>640	▲ **6957**	---	---
Particles >14µm		ASTM D7647	>80	▲ **545**	---	---
Particles >21µm		ASTM D7647	>20	▲ **147**	---	---
Particles >38µm		ASTM D7647	>4	● **8**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>16/13	▲ **20/16**	---	---

OIL ANALYSIS REPORT

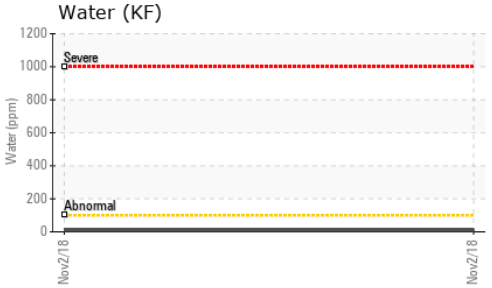
Particle Count



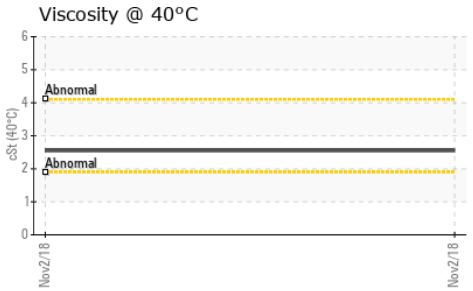
Particle Trend



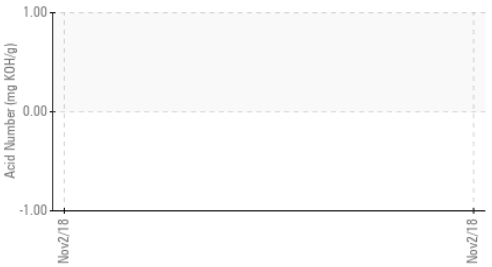
Water (KF)



Viscosity @ 40°C

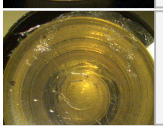


Acid Number



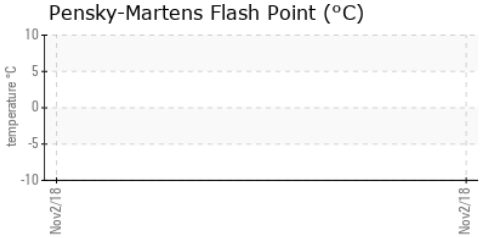
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	▲ **MODER**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.05	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**2.55**	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

Pensky-Martens Flash Point (°C)



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL04599963 **Received** : 27 Nov 2018
Lab Number : 04599963 **Tested** : 05 Dec 2018
Unique Number : 8408954 **Diagnosed** : 05 Dec 2018 - Doug Bogart
Test Package : MOB 2 (Additional Tests: KF, PrtCount)

Certificate L2367

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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