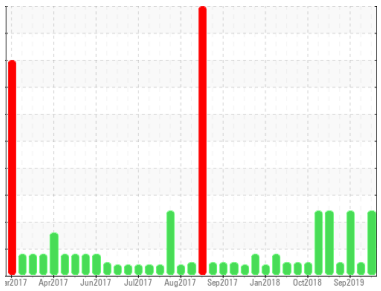
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
HER SON [TRABIS]
Machine Id
MI JACK GRUA-M-374 - TRABIS
Component
Hydraulic System
Fluid
BARDAHL ISO 68 (70 GAL)

DIAGNOSIS

Recommendation
We advise that you check for the source of water entry. We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Appearance is milky. There is a moderate concentration of water present in the oil.

Fluid Condition
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KL0004144**	KL0004038	KL0004026
Sample Date		Client Info		**30 Nov 2019**	02 Oct 2019	07 Sep 2019
Machine Age	hrs	Client Info		**832**	764	755
Oil Age	hrs	Client Info		**2102**	2034	2025
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	NORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**3**	3	2
Chromium	ppm	ASTM D5185m	>10	**<1**	0	0
Nickel	ppm	ASTM D5185m		**<1**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	<1
Aluminum	ppm	ASTM D5185m	>10	**0**	<1	0
Lead	ppm	ASTM D5185m	>10	**0**	<1	<1
Copper	ppm	ASTM D5185m	>75	**2**	2	2
Tin	ppm	ASTM D5185m	>10	**0**	<1	0
Antimony	ppm	ASTM D5185m		**<1**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**2**	0	<1
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	<1	0
Magnesium	ppm	ASTM D5185m		**<1**	0	0
Calcium	ppm	ASTM D5185m		**18**	23	23
Phosphorus	ppm	ASTM D5185m		**170**	202	178
Zinc	ppm	ASTM D5185m		**209**	255	220
Sulfur	ppm	ASTM D5185m		**1366**	1360	1660

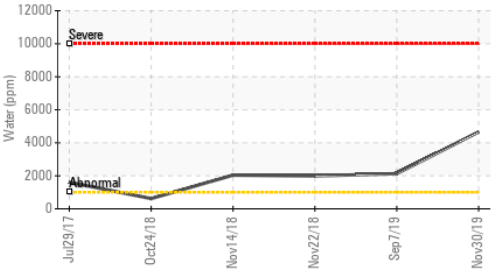
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**1**	<1	1
Sodium	ppm	ASTM D5185m		**0**	<1	1
Potassium	ppm	ASTM D5185m	>20	**0**	<1	0
Water	%	ASTM D6304	>0.1	▲ **0.466**	---	▲ 0.213
ppm Water	ppm	ASTM D6304	>1000	▲ **4660**	---	▲ 2130

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**---**	2217	---
Particles >6µm		ASTM D7647	>1300	**---**	121	---
Particles >14µm		ASTM D7647	>160	**---**	13	---
Particles >21µm		ASTM D7647	>40	**---**	9	---
Particles >38µm		ASTM D7647	>10	**---**	8	---
Particles >71µm		ASTM D7647	>3	**---**	8	---
Oil Cleanliness		ISO 4406 (c)	>17/14	**---**	14/11	---

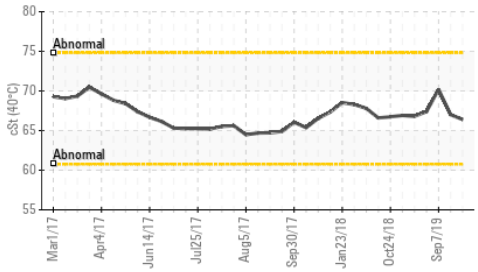
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**---**	0.253	---

OIL ANALYSIS REPORT

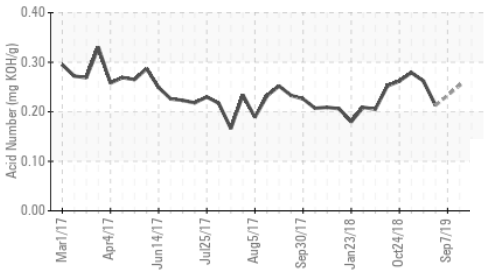
Water (KF)



Viscosity @ 40°C

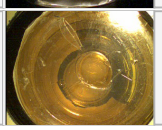


Acid Number



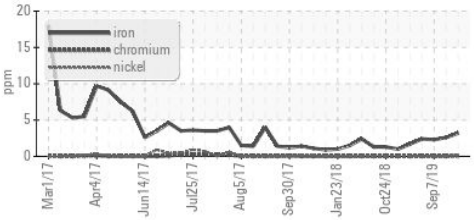
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ **MILKY**	NORML	▲ HAZY
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**0.2%**	NEG	0.2%
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**66.4**	67.0	70.2

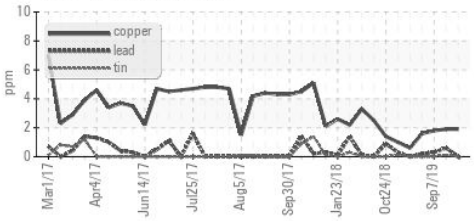
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*		*no image*
Bottom			*no image*		*no image*

GRAPHS

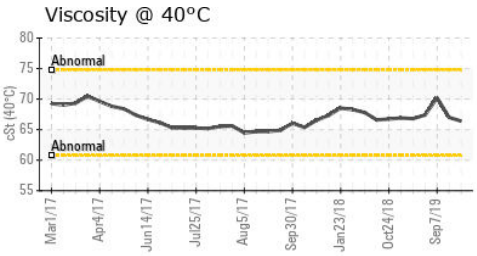
Ferrous Alloys



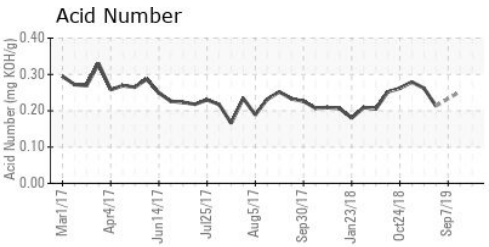
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0004144
Lab Number : 04866395
Unique Number : 8851391
Test Package : MOB1+ (Additional Tests: KF, PrtCount, TAN Man)
Received : 12 Dec 2019
Tested : 16 Dec 2019
Diagnosed : 16 Dec 2019 - Jonathan Hester

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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F: x:

Report Id: CONHERKL [WUSCAR] 04866395 (Generated: 02/26/2024 15:02:54) Rev: 1

Submitted By: EDUARDO GARCIA