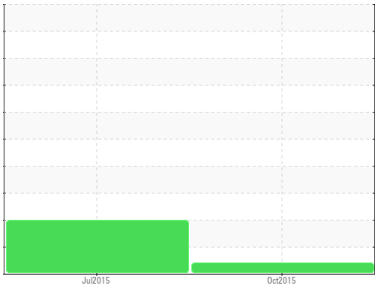
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
AUTOCAR 1199H
Component
Hydraulic System
Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KLM2336988**	KLM2316247	---
Sample Date		Client Info		**16 Oct 2015**	16 Jul 2015	---
Machine Age	mls	Client Info		**72654**	1199	---
Oil Age	mls	Client Info		**0**	0	---
Oil Changed		Client Info		**Not Changd**	Not Changd	---
Sample Status				**ABNORMAL**	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**4**	6	---
Chromium	ppm	ASTM D5185m	>10	**2**	3	---
Nickel	ppm	ASTM D5185m		**0**	<1	---
Titanium	ppm	ASTM D5185m		**0**	<1	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>10	**2**	3	---
Lead	ppm	ASTM D5185m	>10	**<1**	<1	---
Copper	ppm	ASTM D5185m	>75	**2**	2	---
Tin	ppm	ASTM D5185m	>10	**0**	0	---
Antimony	ppm	ASTM D5185m		**0**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

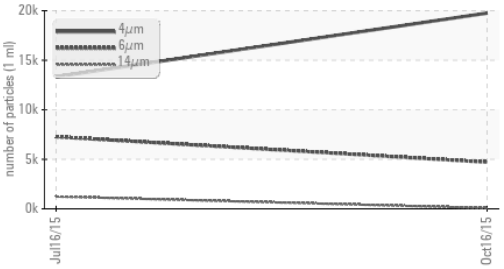
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**380**	289	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**66**	50	---
Manganese	ppm	ASTM D5185m		**<1**	<1	---
Magnesium	ppm	ASTM D5185m		**286**	239	---
Calcium	ppm	ASTM D5185m		**1754**	2066	---
Phosphorus	ppm	ASTM D5185m		**964**	1138	---
Zinc	ppm	ASTM D5185m		**1172**	1253	---
Sulfur	ppm	ASTM D5185m		**3353**	3796	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**3**	8	---
Sodium	ppm	ASTM D5185m		**4**	2	---
Potassium	ppm	ASTM D5185m	>20	**2**	6	---

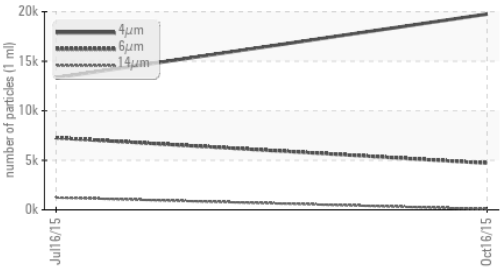
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**19756**	13343	---
Particles >6µm		ASTM D7647	>1300	▲ **4706**	▲ 7268	---
Particles >14µm		ASTM D7647	>160	**76**	▲ 1238	---
Particles >21µm		ASTM D7647	>40	**12**	▲ 417	---
Particles >38µm		ASTM D7647	>10	**1**	▲ 64	---
Particles >71µm		ASTM D7647	>3	**0**	▲ 6	---
Oil Cleanliness		ISO 4406 (c)	>17/14	▲ **19/13**	▲ 20/17	---

OIL ANALYSIS REPORT

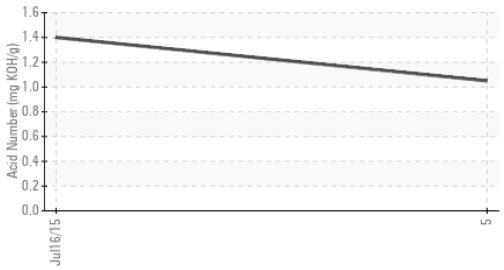
Particle Trend



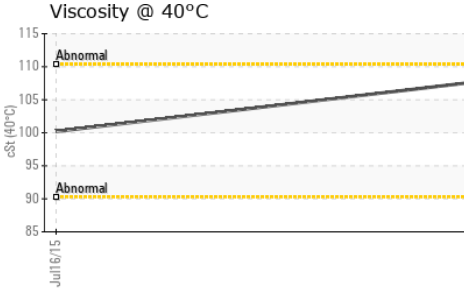
Particle Trend



Acid Number



Viscosity @ 40°C



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.05**	1.40	---

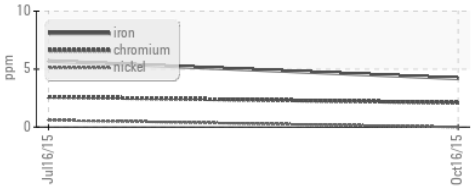
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	VLITE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**107.9**	100.2	---

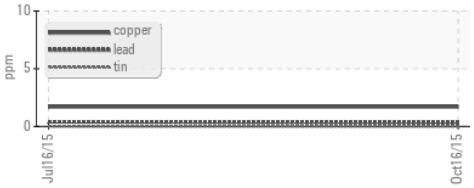
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

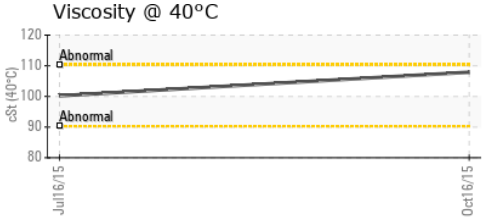
Ferrous Alloys



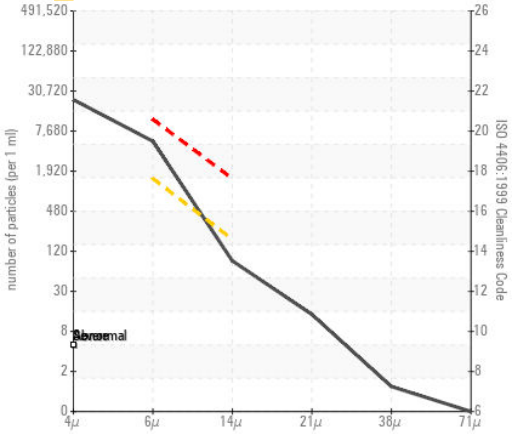
Non-ferrous Metals



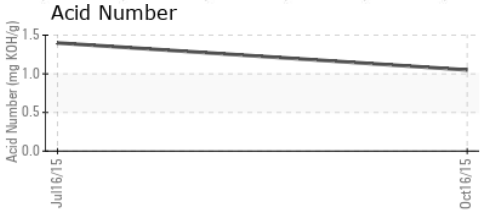
Viscosity @ 40°C



Particle Count



Acid Number



ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KLM2336988
Lab Number : 03854984
Unique Number : 7190202
Test Package : MOB 2

Recieved : 30 Oct 2015
Diagnosed : 03 Nov 2015
Diagnostician : 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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