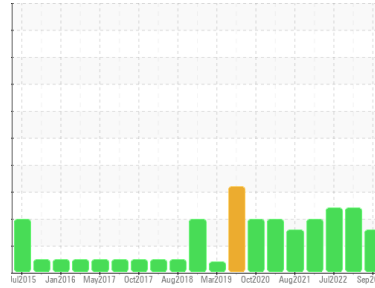




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
MACK 1373H
 Component
Hydraulic System
 Fluid
NOT GIVEN (--- QTS)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

The aluminum level is abnormal. The copper level is abnormal.

▲ 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		KL0012916	KL0011857	KL0009002
Sample Date	Client Info		06 Sep 2023	03 May 2023	08 Jul 2022
Machine Age	mls	Client Info	148113	142409	132995
Oil Age	mls	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	11	10	10
Chromium	ppm	ASTM D5185m >10	<1	<1	<1
Nickel	ppm	ASTM D5185m >4	0	<1	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >5	5	▲ 11	▲ 8
Lead	ppm	ASTM D5185m >4	<1	<1	<1
Copper	ppm	ASTM D5185m >15	▲ 17	▲ 15	▲ 20
Tin	ppm	ASTM D5185m >4	0	1	0
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	94	88	116
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	54	49	51
Manganese	ppm	ASTM D5185m	<1	<1	0
Magnesium	ppm	ASTM D5185m	694	680	614
Calcium	ppm	ASTM D5185m	1009	1024	1075
Phosphorus	ppm	ASTM D5185m	891	916	916
Zinc	ppm	ASTM D5185m	1078	1123	1081
Sulfur	ppm	ASTM D5185m	3105	3661	3643

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	5	5	4
Sodium	ppm	ASTM D5185m	4	2	0
Potassium	ppm	ASTM D5185m >20	0	2	1

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		114801	60754	58133
Particles >6µm	ASTM D7647	>1300	▲ 14359	▲ 2306	▲ 2047
Particles >14µm	ASTM D7647	>160	63	15	34
Particles >21µm	ASTM D7647	>40	5	3	10
Particles >38µm	ASTM D7647	>10	1	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>17/14	▲ 21/13	▲ 18/11	▲ 18/12

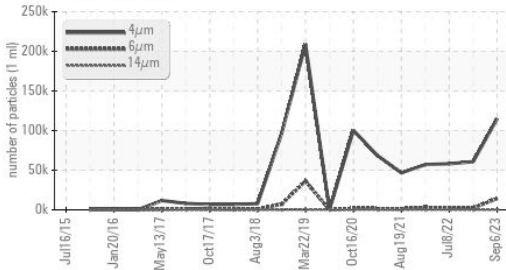
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.47	1.39	1.46

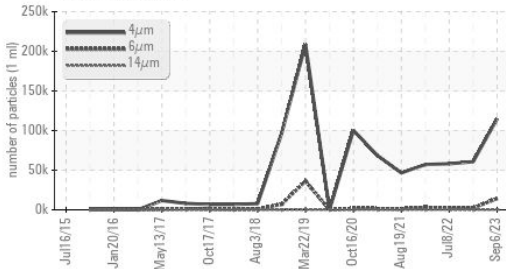


OIL ANALYSIS REPORT

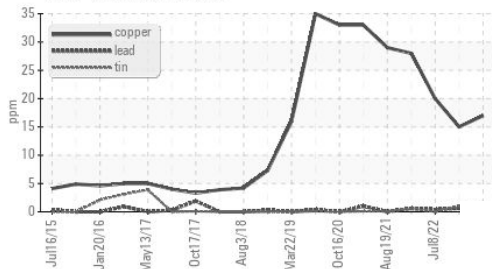
▲ Particle Trend



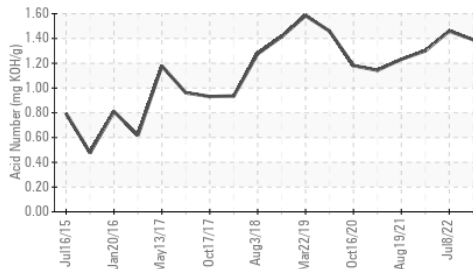
▲ Particle Trend



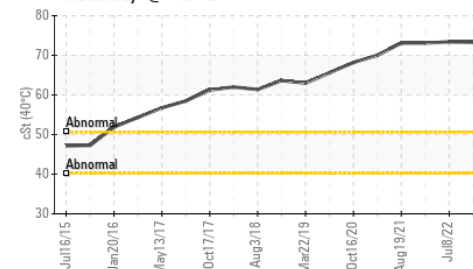
▲ Non-ferrous Metals



Acid Number



Viscosity @ 40°C

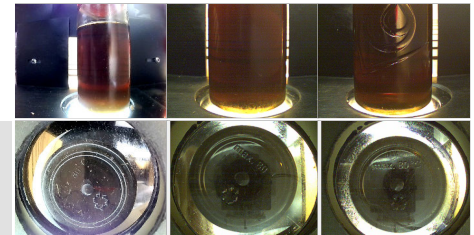


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	75.9	73.3	73.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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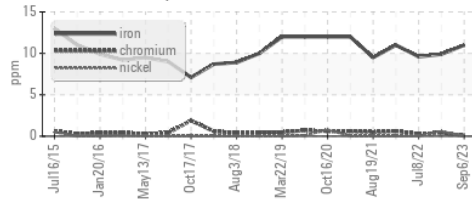
Color



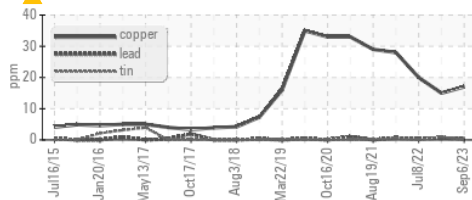
Bottom

GRAPHS

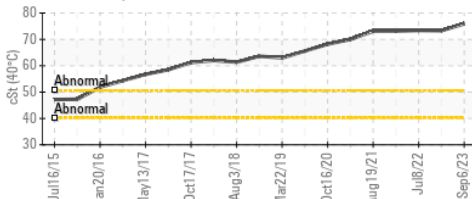
Ferrous Alloys



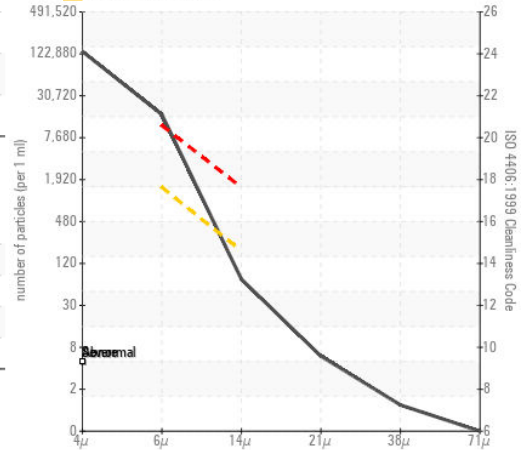
▲ Non-ferrous Metals



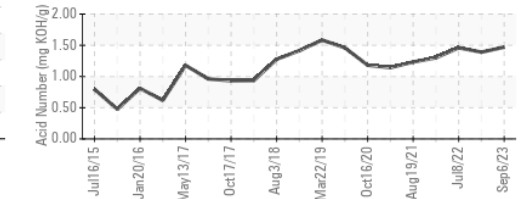
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : KL0012916
 Lab Number : 05965355
 Unique Number : 10671906
 Test Package : MOB 2
 Received : 29 Sep 2023
 Diagnosed : 02 Oct 2023
 Diagnostician : Don Baldrige

VILLAGE OF RUIDOSO
 313 CREE MEADOWS DR
 RUIDOSO, NM
 US 88355
 Contact: JERRY PARSONS
 jerryparsons@ruidoso-nm.gov
 T: (575)257-1702
 F: x:

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)