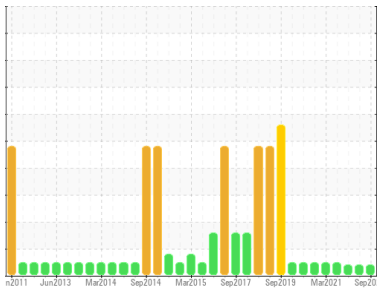
OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Area
KEMP QUARRIES / HULBERT
Machine Id
OHT049
Component
Rear Right Final Drive
Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)

DIAGNOSIS

Recommendation
Oil and 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 no indication of any contamination in the oil.

Fluid Condition
The oil viscosity is lower than normal. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0086128**	PCA0061809	PCA0048869
Sample Date		Client Info		**23 Sep 2023**	09 Dec 2022	12 Mar 2022
Machine Age	hrs	Client Info		**8820**	7760	6320
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Not Changd	Changed
Sample Status				**ATTENTION**	ATTENTION	ATTENTION

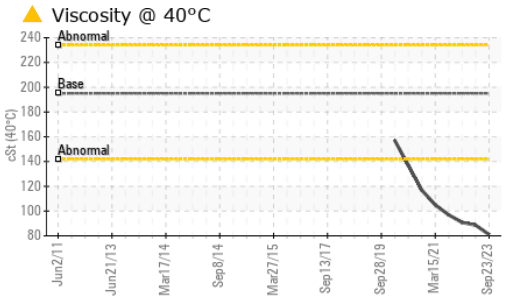
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	**111**	128	105
Chromium	ppm	ASTM D5185m	>10	**<1**	1	<1
Nickel	ppm	ASTM D5185m	>5	**2**	2	2
Titanium	ppm	ASTM D5185m	>15	**<1**	<1	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>75	**2**	4	<1
Lead	ppm	ASTM D5185m	>10	**4**	4	2
Copper	ppm	ASTM D5185m	>75	**42**	46	39
Tin	ppm	ASTM D5185m	>8	**2**	2	2
Antimony	ppm	ASTM D5185m	>50	**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**12**	16	19
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**22**	27	28
Manganese	ppm	ASTM D5185m		**1**	1	0
Magnesium	ppm	ASTM D5185m		**347**	416	296
Calcium	ppm	ASTM D5185m		**1090**	1430	1572
Phosphorus	ppm	ASTM D5185m		**717**	855	758
Zinc	ppm	ASTM D5185m		**853**	972	1007
Sulfur	ppm	ASTM D5185m		**3789**	5485	3555

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	**22**	24	25
Sodium	ppm	ASTM D5185m		**2**	3	0
Potassium	ppm	ASTM D5185m	>20	**<1**	1	0

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**MODER**	MODER	MODER
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	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

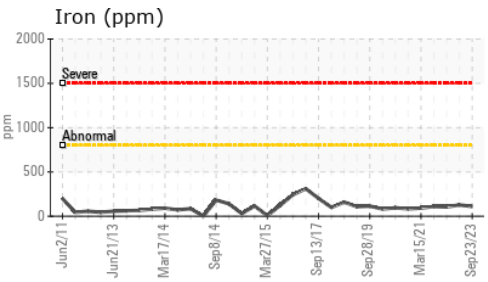
OIL ANALYSIS REPORT

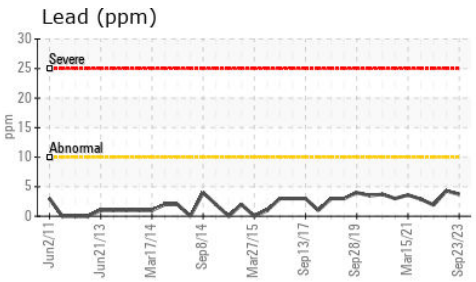


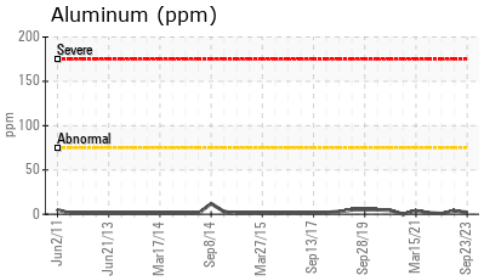
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	195	▲ **81.0**	▲ 88.6	▲ 90.8

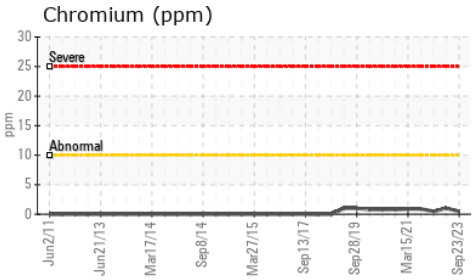
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

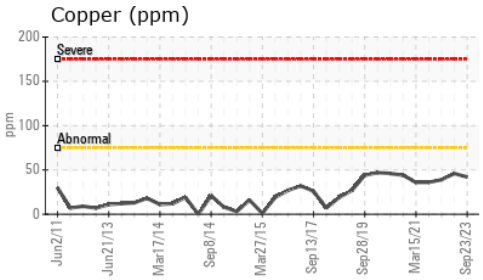
GRAPHS

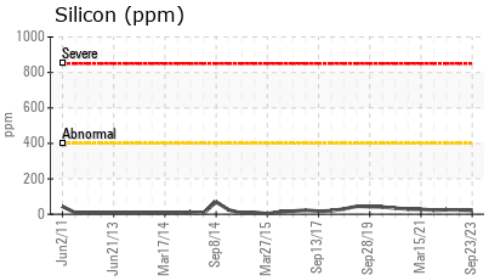


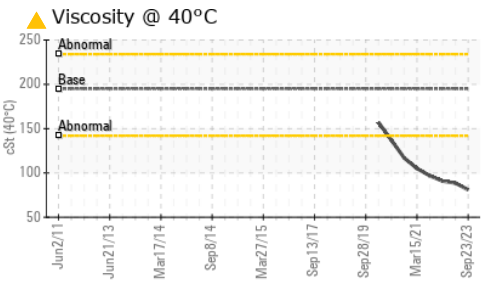


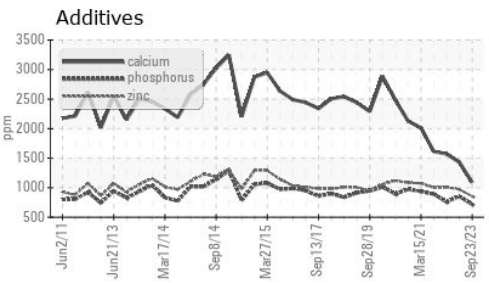












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0086128
Lab Number : 05969901
Unique Number : 10681851
Test Package : MOB 1

Received : 04 Oct 2023
Diagnosed : 09 Oct 2023
Diagnostician : Sean Felton

Kemp Quarries - Kemp Stone - Hulbert
17801 Hwy 80
Hulbert, OK
US 74441
Contact:
hulbert@kempstone.com
T:
F:

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)