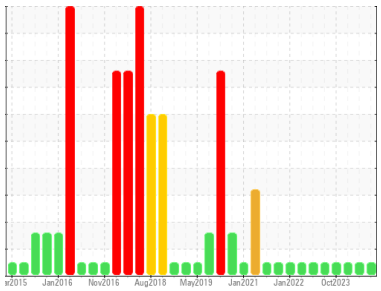
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
KEMP QUARRIES / RIVER VALLEY BACKBONE
Machine Id
WL088
Component
Front Differential
Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)

DIAGNOSIS

Recommendation
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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0108603**	PCA0069722	PCA0084824
Sample Date		Client Info		**23 May 2024**	30 Jan 2024	10 Nov 2023
Machine Age	hrs	Client Info		**43799**	43499	6716
Oil Age	hrs	Client Info		**900**	1200	900
Oil Changed		Client Info		**Not Changd**	Changed	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**53**	41	35
Chromium	ppm	ASTM D5185m	>3	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>3	**<1**	0	<1
Titanium	ppm	ASTM D5185m	>2	**<1**	0	<1
Silver	ppm	ASTM D5185m	>2	**1**	0	0
Aluminum	ppm	ASTM D5185m	>30	**4**	2	2
Lead	ppm	ASTM D5185m	>13	**<1**	0	<1
Copper	ppm	ASTM D5185m	>103	**5**	4	4
Tin	ppm	ASTM D5185m	>5	**<1**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**<1**	<1	<1
Barium	ppm	ASTM D5185m		**0**	5	0
Molybdenum	ppm	ASTM D5185m		**1**	0	<1
Manganese	ppm	ASTM D5185m		**1**	0	<1
Magnesium	ppm	ASTM D5185m		**12**	12	13
Calcium	ppm	ASTM D5185m		**2583**	2868	2888
Phosphorus	ppm	ASTM D5185m		**962**	976	1072
Zinc	ppm	ASTM D5185m		**1141**	1196	1292
Sulfur	ppm	ASTM D5185m		**4798**	5392	5226

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	**42**	38	32
Sodium	ppm	ASTM D5185m		**<1**	0	0
Potassium	ppm	ASTM D5185m	>20	**2**	2	2

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	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

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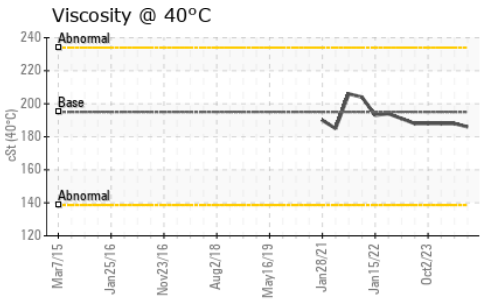
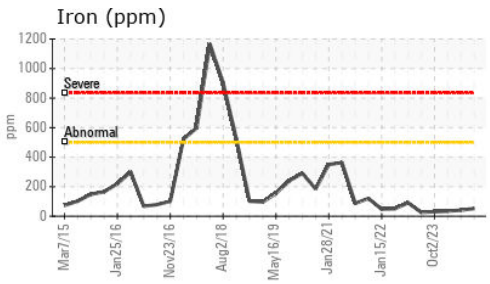
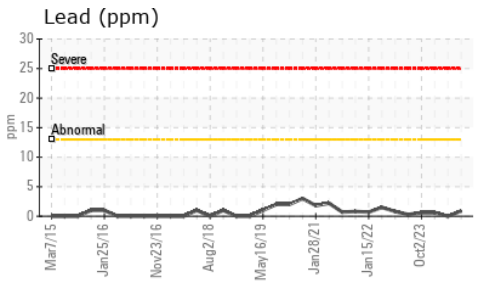


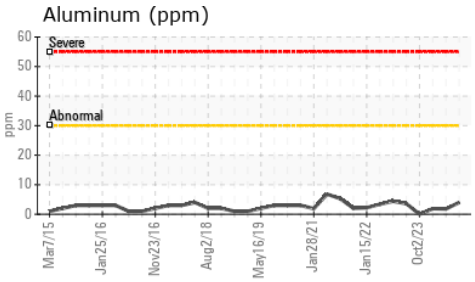
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	195	**186**	188	188

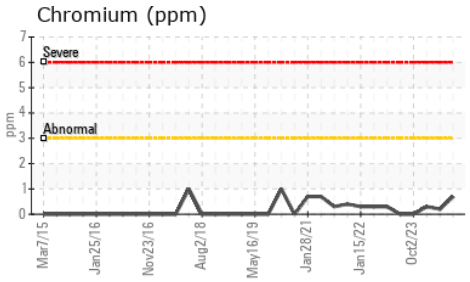
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

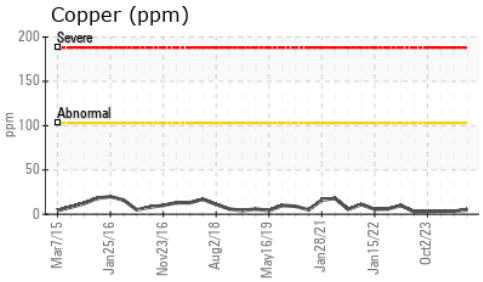
GRAPHS

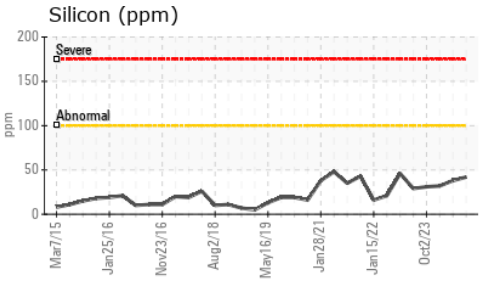


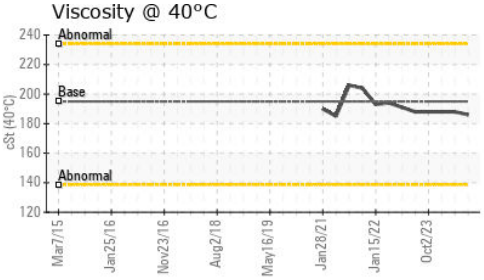


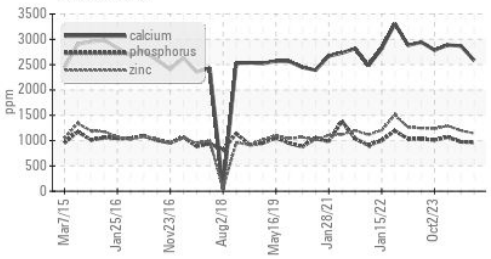












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108603
Lab Number : 06193081
Unique Number : 11049833
Test Package : MOB 1

Received : 28 May 2024
Tested : 30 May 2024
Diagnosed : 30 May 2024 - Wes Davis

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)

Kemp Quarries - River Valley - Backbone
5600 S Hwy 253
Huntington, AR
US 72940
Contact:
backbone@rivervalleyquarries.com
T:
F:

Report Id: KEMHUN [WUSCAR] 06193081 (Generated: 05/30/2024 08:42:46) Rev: 1

Submitted By: