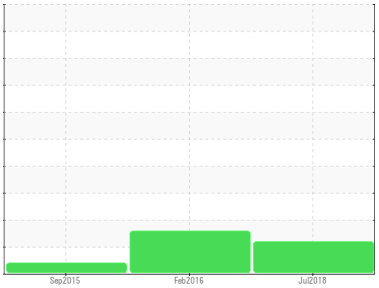
OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
KEMP QUARRIES / NEOSHO [18220106009]
Machine Id
CRSH061
Component
Circulating System
Fluid
MOBIL MOBILFLUID 424 (--- GAL)

DIAGNOSIS

Recommendation
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear
Iron ppm levels are abnormal.

Contamination
The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition
Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number		Client Info		**PCA20106009**	PCA77192003	PCA99417026
Sample Date		Client Info		**26 Jul 2018**	29 Feb 2016	18 Sep 2015
Machine Age	hrs	Client Info		**4148**	7361	1068
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	SEVERE	ABNORMAL

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m)		▲ **46**	▲ 49	18
Chromium	ppm	ASTM D5185(m)		**0**	0	0
Nickel	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)		**2**	2	1
Lead	ppm	ASTM D5185(m)		**0**	0	0
Copper	ppm	ASTM D5185(m)		**1**	2	1
Tin	ppm	ASTM D5185(m)		**0**	3	0

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m)		**8**	0	0
Barium	ppm	ASTM D5185(m)		**0**	2	1
Molybdenum	ppm	ASTM D5185(m)		**0**	0	0
Magnesium	ppm	ASTM D5185(m)		**5**	11	8
Calcium	ppm	ASTM D5185(m)		**2669**	147	3347
Phosphorus	ppm	ASTM D5185(m)		**919**	445	1166
Zinc	ppm	ASTM D5185(m)		**981**	588	1346

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)		**18**	23	11
Sodium	ppm	ASTM D5185(m)		**7**	0	8
Potassium	ppm	ASTM D5185(m)		**1**	0	1
Water	%	ASTM D6304*		**0**	0	0

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	ASTM D7414*		**0**	0	0

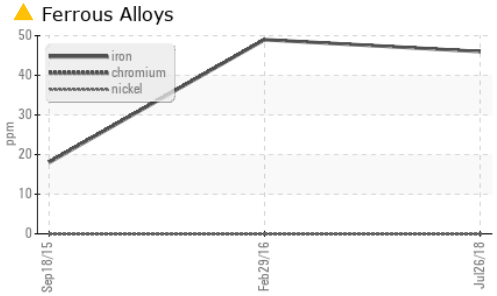
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D7279(m)		▲ **6.3**	⬢ 19	▲ 6.1

SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color				*no image*	*no image*	*no image*
Bottom				*no image*	*no image*	*no image*

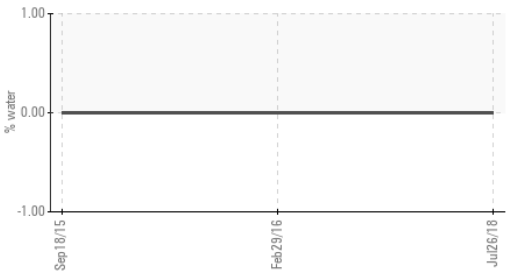
OIL ANALYSIS REPORT

GRAPHS

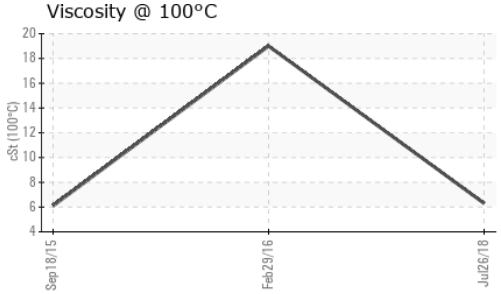
Ferrous Alloys



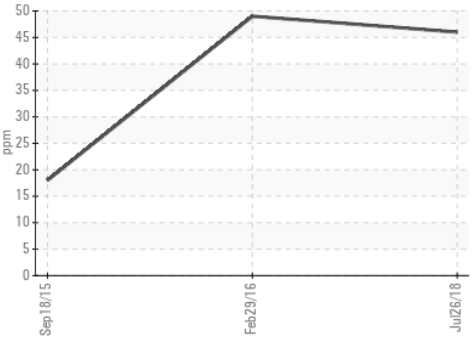
Water



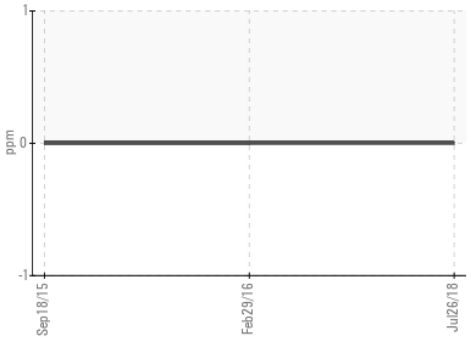
Viscosity @ 100°C



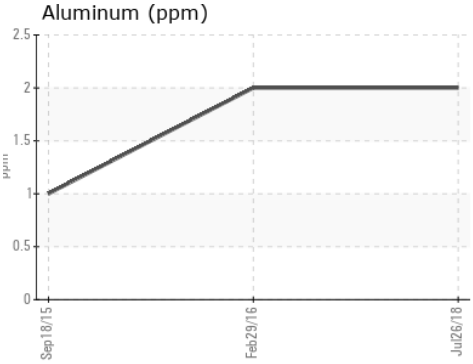
Iron (ppm)



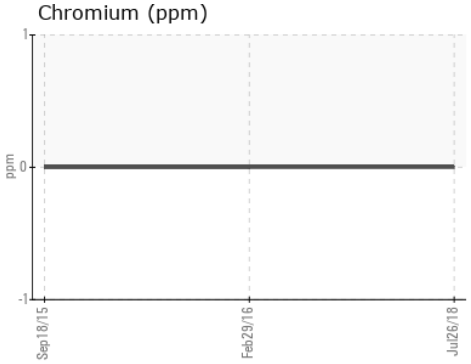
Lead (ppm)



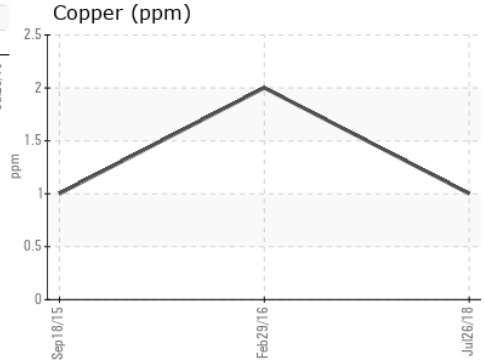
Aluminum (ppm)



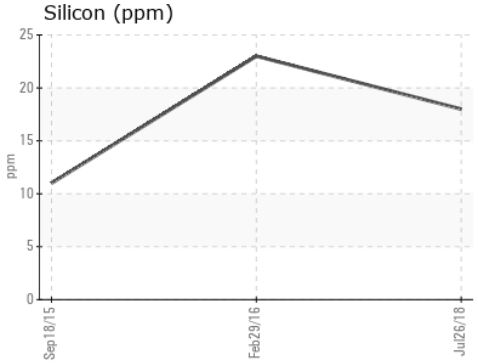
Chromium (ppm)



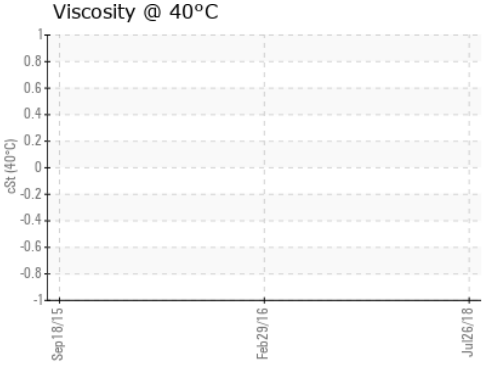
Copper (ppm)



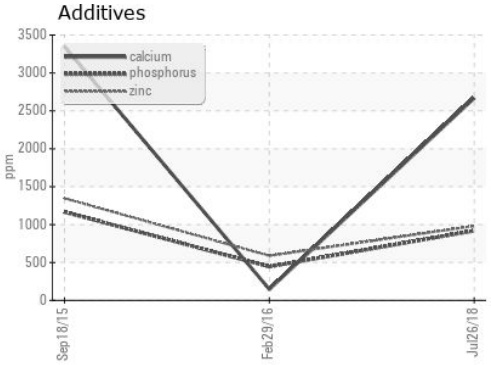
Silicon (ppm)



Viscosity @ 40°C



Additives



Laboratory : WearCheck -
Sample No. : PCA20106009
Lab Number : 20106009
Unique Number : 12895617
Test Package : MOB1+ (Additional Tests: FT-IR, ICP, KF, KV100)

Received : 08 Aug 2018
Diagnosed : 05 Jun 2019
Diagnostician : Wes Davis

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

Kemp Quarries - Kemp Stone - Neosho
19148 Ingersol Lane
Neosho, MO
US 64850
Contact:
neosho@kempstone.com
T:
F: