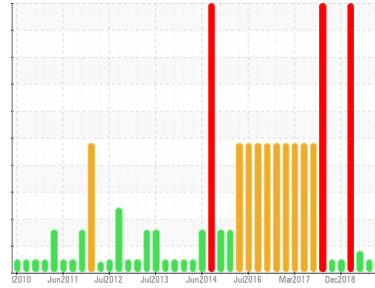


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area
KEMP QUARRIES / HULBERT
Machine Id
WL030
Component
Front Right Final Drive
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 oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0086833	PCA0025310	PCA0017238
Sample Date	Client Info		26 Jul 2023	16 Jul 2020	02 Apr 2020
Machine Age	hrs	Client Info	6169	5097	4617
Oil Age	hrs	Client Info	0	3250	3250
Oil Changed	Client Info		Not Chngd	N/A	N/A
Sample Status			ATTENTION	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	113	379	▲ 1420
Chromium	ppm	ASTM D5185m >10	0	1	4
Nickel	ppm	ASTM D5185m >5	0	<1	<1
Titanium	ppm	ASTM D5185m >15	<1	<1	<1
Silver	ppm	ASTM D5185m >2	0	<1	0
Aluminum	ppm	ASTM D5185m >75	3	2	8
Lead	ppm	ASTM D5185m >10	2	3	7
Copper	ppm	ASTM D5185m >75	12	42	23
Tin	ppm	ASTM D5185m >8	<1	<1	<1
Antimony	ppm	ASTM D5185m >50	---	0	0
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	6	11
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	▲ 48	3	6
Manganese	ppm	ASTM D5185m	1	5	13
Magnesium	ppm	ASTM D5185m	▲ 790	50	58
Calcium	ppm	ASTM D5185m	▲ 1538	3029	2788
Phosphorus	ppm	ASTM D5185m	1042	1023	979
Zinc	ppm	ASTM D5185m	1290	1286	1152
Sulfur	ppm	ASTM D5185m	▲ 4023	12872	10266

CONTAMINANTS

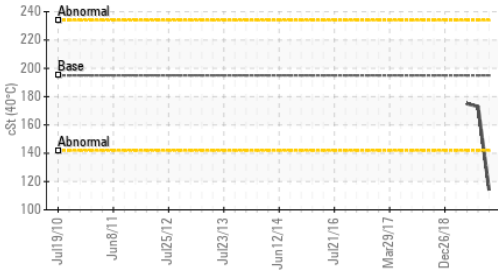
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	34	17	45
Sodium	ppm	ASTM D5185m	<1	<1	0
Potassium	ppm	ASTM D5185m >20	<1	1	1

VISUAL

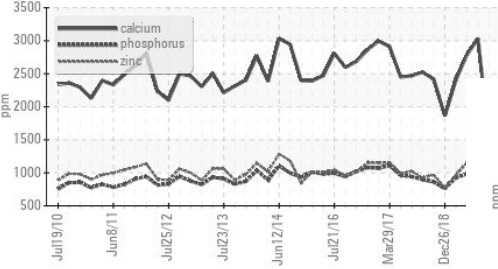
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	NONE
Debris	scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	NONE	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

▲ Viscosity @ 40°C



▲ Additives



FLUID PROPERTIES

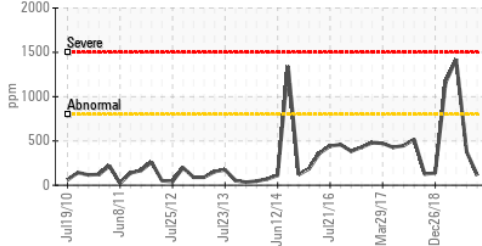
method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	195 ▲ 114	173	175

SAMPLE IMAGES

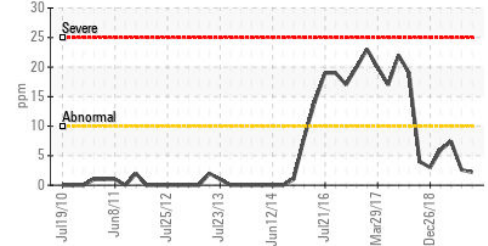
method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

GRAPHS

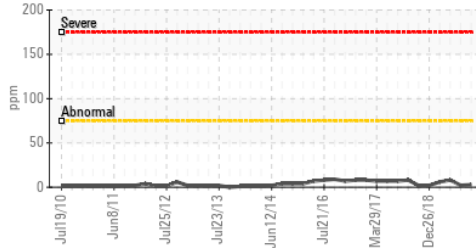
Iron (ppm)



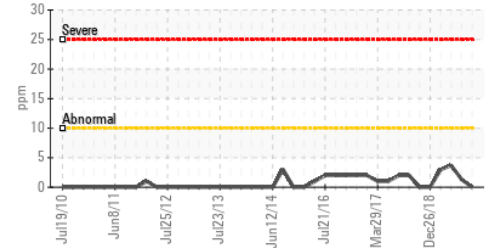
Lead (ppm)



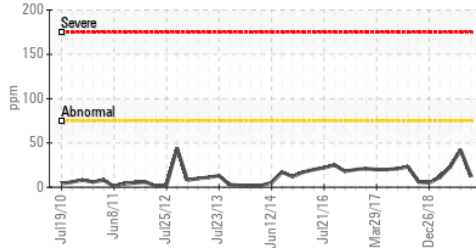
Aluminum (ppm)



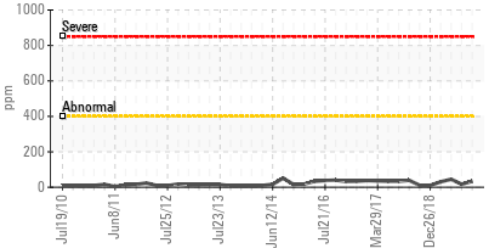
Chromium (ppm)



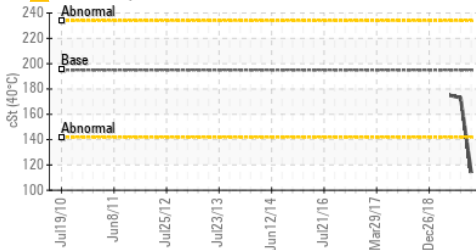
Copper (ppm)



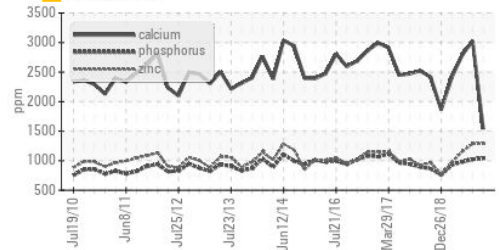
Silicon (ppm)



▲ Viscosity @ 40°C



▲ Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : PCA0086833
 Lab Number : 05969917
 Unique Number : 10681867
 Test Package : MOB 1

Kemp Quarries - Kemp Stone - Hulbert
 17801 Hwy 80
 Hulbert, OK
 US 74441
 Contact:

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)

hulbert@kempstone.com

T:

F: