

OIL ANALYSIS REPORT



Area
KEMP QUARRIES / HULBERT
Machine Id
WL030
Component
Front Left Final Drive
Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)

Sample Rating Trend



VISCOSITY



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	PCA0086832	PCA0025311	PCA0017235
Sample Date	Client Info	26 Jul 2023	16 Jul 2020	02 Apr 2020
Machine Age	hrs	6169	5097	4617
Oil Age	hrs	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	130	386	▲ 1228
Chromium	ppm	ASTM D5185m >10	0	1	3
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	7
Lead	ppm	ASTM D5185m >10	2	2	7
Copper	ppm	ASTM D5185m >75	11	42	22
Tin	ppm	ASTM D5185m >8	<1	<1	<1
Antimony	ppm	ASTM D5185m >50	---	0	0
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	1	6	11
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	▲ 49	3	6
Manganese	ppm	ASTM D5185m	1	5	11
Magnesium	ppm	ASTM D5185m	▲ 788	48	57
Calcium	ppm	ASTM D5185m	▲ 1512	3002	2715
Phosphorus	ppm	ASTM D5185m	1040	1021	969
Zinc	ppm	ASTM D5185m	1267	1285	1126
Sulfur	ppm	ASTM D5185m	▲ 4003	12778	10165

CONTAMINANTS

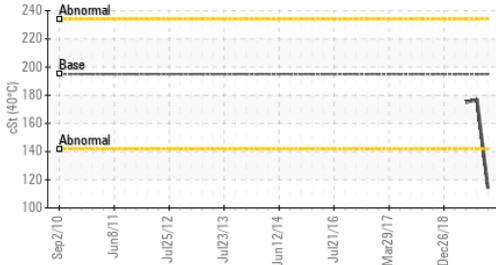
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >400	30	17	41
Sodium	ppm	ASTM D5185m	<1	<1	0
Potassium	ppm	ASTM D5185m >20	<1	2	1

VISUAL

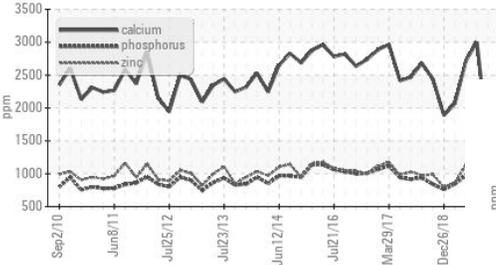
method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	NONE	MODER	LIGHT
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	NONE
Debris	scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual NONE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

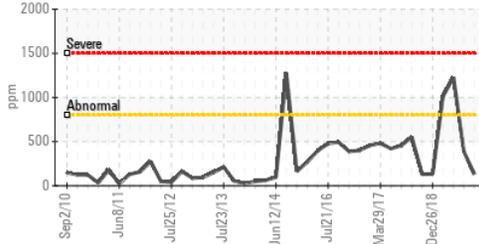
method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	195 ▲ 114	177	175

SAMPLE IMAGES

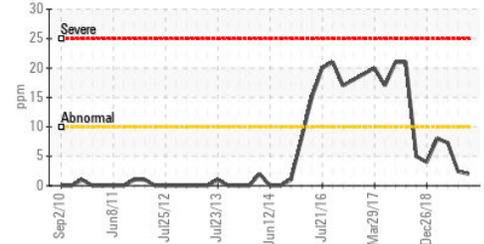
method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

GRAPHS

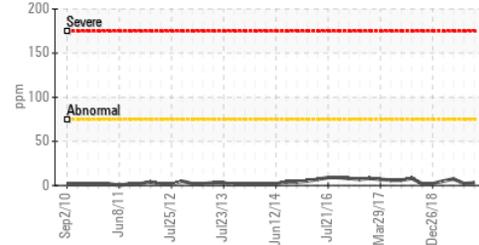
Iron (ppm)



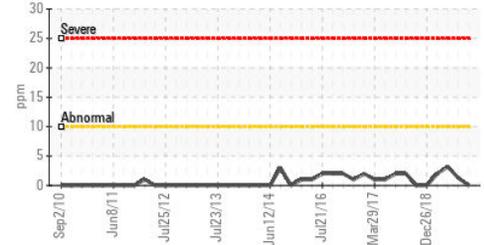
Lead (ppm)



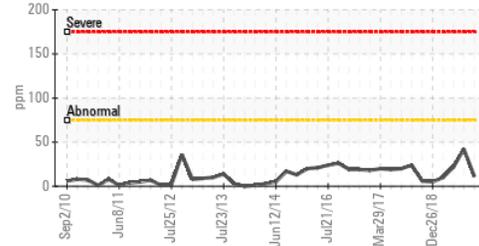
Aluminum (ppm)



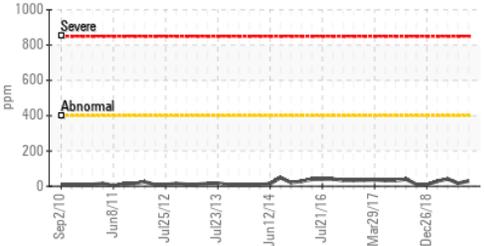
Chromium (ppm)



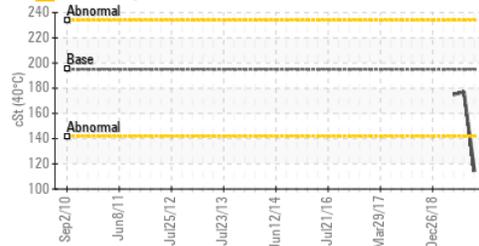
Copper (ppm)



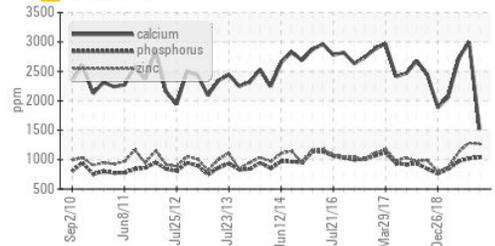
Silicon (ppm)



▲ Viscosity @ 40°C



▲ Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0086832 **Received** : 04 Oct 2023
Lab Number : 05969923 **Diagnosed** : 09 Oct 2023
Unique Number : 10681873 **Diagnostician** : Sean Felton
Test Package : MOB 1

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

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)

T:
F: