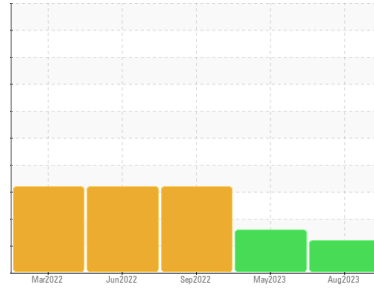


OIL ANALYSIS REPORT

Sample Rating Trend



ADDITIVES



Machine Id
TTH034
 Component
Left Final Drive
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. 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

Additive levels indicate 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	PCA0084290	PCA0084171	PCA0062501	
Sample Date	Client Info	04 Aug 2023	10 May 2023	02 Sep 2022	
Machine Age	hrs	Client Info	5598	5028	4035
Oil Age	hrs	Client Info	5028	0	4035
Oil Changed	Client Info	Not Changed	Not Changd	Not Changed	
Sample Status		ATTENTION	ATTENTION	ABNORMAL	

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >500	283	216	▲ 684
Chromium	ppm	ASTM D5185m >10	5	3	9
Nickel	ppm	ASTM D5185m >10	<1	0	<1
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	8	5	▲ 16
Lead	ppm	ASTM D5185m >25	<1	0	0
Copper	ppm	ASTM D5185m >50	<1	<1	2
Tin	ppm	ASTM D5185m >10	<1	0	<1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 400	10	5	18
Barium	ppm	ASTM D5185m 200	0	0	2
Molybdenum	ppm	ASTM D5185m 12	<1	<1	1
Manganese	ppm	ASTM D5185m	3	2	5
Magnesium	ppm	ASTM D5185m 12	19	0	7
Calcium	ppm	ASTM D5185m 150	▲ 3089	▲ 2898	17
Phosphorus	ppm	ASTM D5185m 1650	1015	▲ 910	490
Zinc	ppm	ASTM D5185m 125	▲ 1138	▲ 1031	21
Sulfur	ppm	ASTM D5185m 22500	▲ 7973	▲ 7418	14843

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >75	71	59	▲ 80
Sodium	ppm	ASTM D5185m >170	2	2	1
Potassium	ppm	ASTM D5185m >20	2	2	2

VISUAL

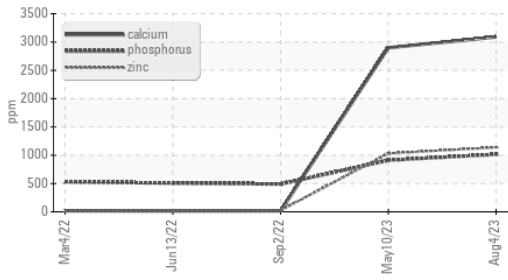
method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	NONE
Debris	scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	NONE
Appearance	scalar	*Visual NORML	NORML	NORML	NORML
Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual >0.2	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445 143	176	175	154

OIL ANALYSIS REPORT

▲ Additives



SAMPLE IMAGES method limit/base current history1 history2

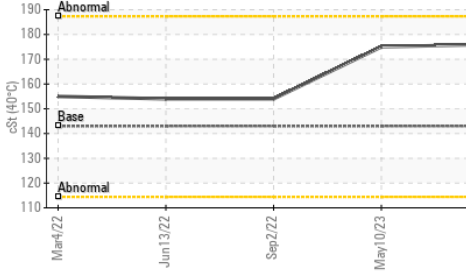
Color

Bottom

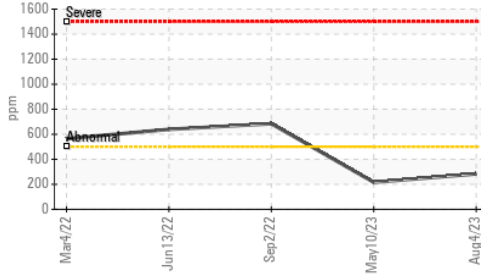
Color	no image	no image	no image
Bottom	no image	no image	no image

GRAPHS

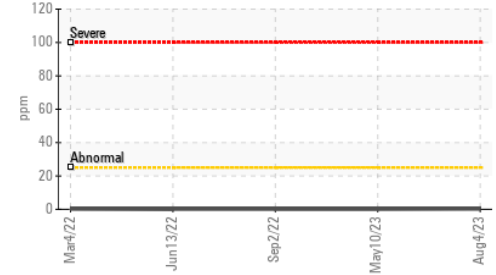
Viscosity @ 40°C



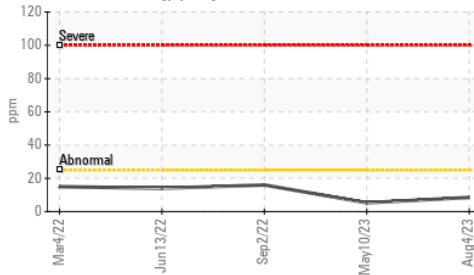
Iron (ppm)



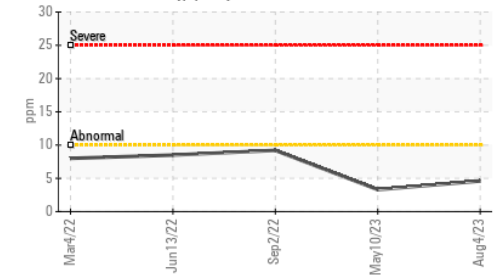
Lead (ppm)



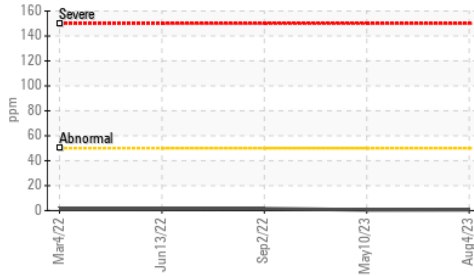
Aluminum (ppm)



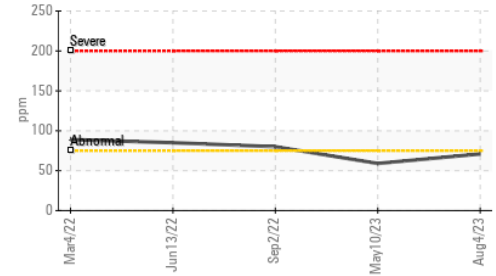
Chromium (ppm)



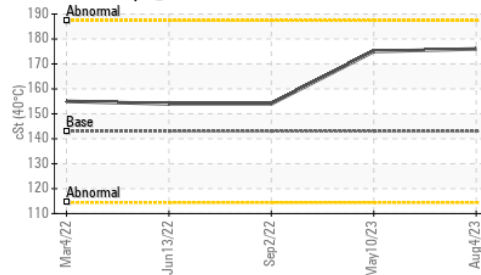
Copper (ppm)



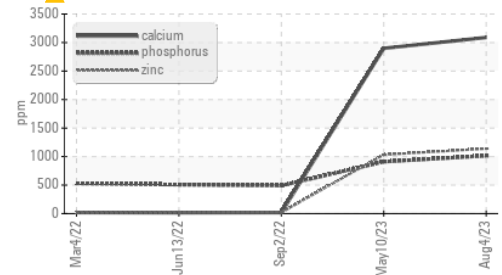
Silicon (ppm)



Viscosity @ 40°C



▲ Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0084290 **Received** : 09 Aug 2023
Lab Number : 05920471 **Diagnosed** : 10 Aug 2023
Unique Number : 10592385 **Diagnostician** : Sean Felton
Test Package : MOB 1

Kemp Quarries - River Valley - Arkoma
 12971 HWY 9a
 Shawnee, OK
 US 74804
 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)

arkomashop@kempquarries.net

T:

F: