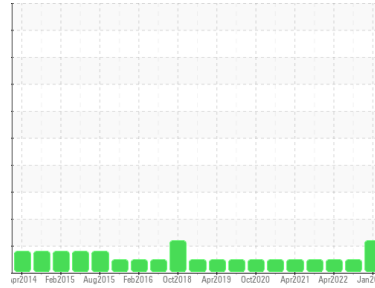


Area
KEMP QUARRIES / RIVER VALLEY OZARK
 Machine Id
TTH017
 Component
Hydraulic System
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Performed pm-4 on 1/10/24)

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0084492	PCA0037183	PCA0049378
Sample Date	Client Info	12 Jan 2024	13 Jan 2023	05 Apr 2022
Machine Age	hrs	5255	18563	4336
Oil Age	hrs	5255	900	600
Oil Changed	Client Info	Changed	Not Changd	Not Changed
Sample Status		ABNORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >18	2	2	0
Chromium	ppm ASTM D5185m >2	<1	<1	0
Nickel	ppm ASTM D5185m >10	0	0	0
Titanium	ppm ASTM D5185m	<1	0	0
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >3	0	0	0
Lead	ppm ASTM D5185m >5	0	0	0
Copper	ppm ASTM D5185m >98	1	<1	<1
Tin	ppm ASTM D5185m >4	0	0	0
Antimony	ppm ASTM D5185m	---	---	---
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 0	0	0	3
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 0	8	2	3
Manganese	ppm ASTM D5185m	0	0	0
Magnesium	ppm ASTM D5185m 0	104	18	17
Calcium	ppm ASTM D5185m	199	98	130
Phosphorus	ppm ASTM D5185m	407	325	354
Zinc	ppm ASTM D5185m	534	372	479
Sulfur	ppm ASTM D5185m	1135	653	820

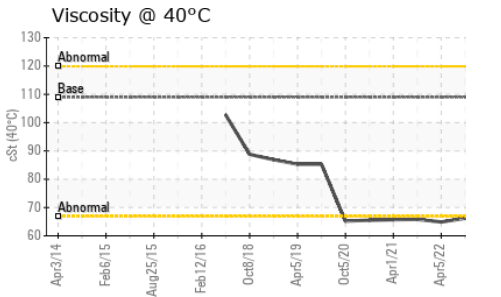
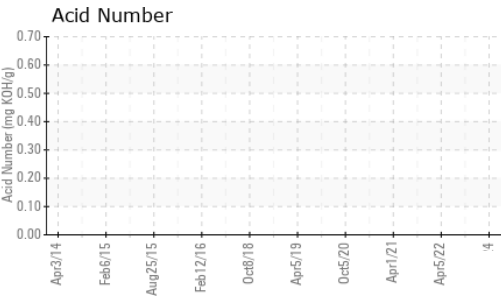
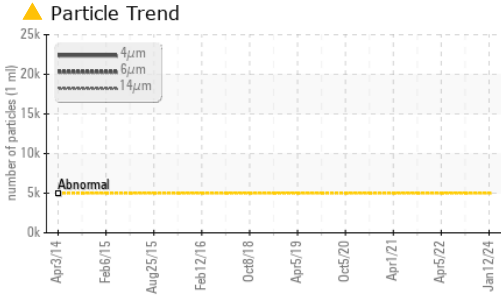
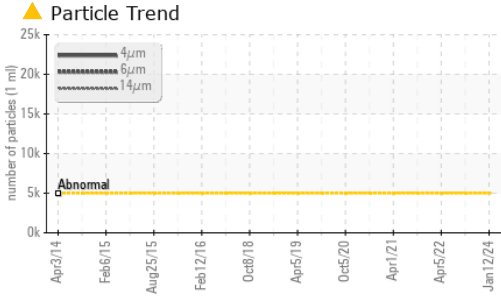
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >13	2	2	<1
Sodium	ppm ASTM D5185m	<1	<1	0
Potassium	ppm ASTM D5185m >20	0	0	2

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 20843	---	---
Particles >6µm	ASTM D7647 >1300	▲ 3881	---	---
Particles >14µm	ASTM D7647 >160	125	---	---
Particles >21µm	ASTM D7647 >40	13	---	---
Particles >38µm	ASTM D7647 >10	0	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 22/19/14	---	---

OIL ANALYSIS REPORT

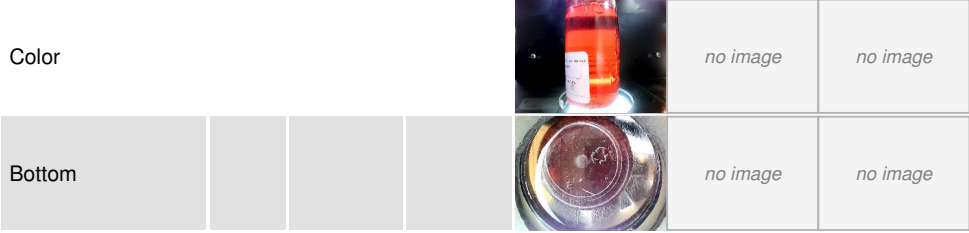


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.64	---	---

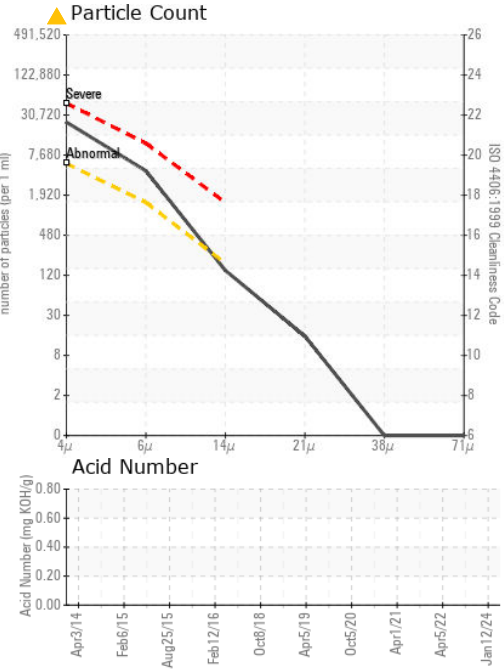
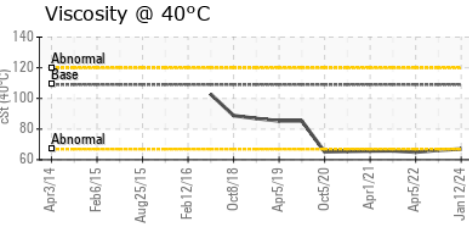
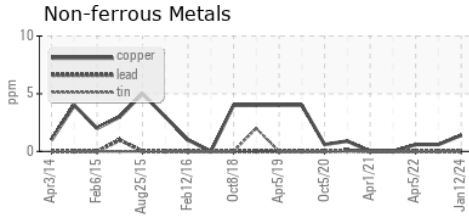
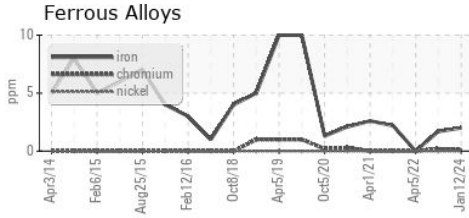
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	109	67.0	66.2	64.9

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0084492 **Received** : 30 Jan 2024
Lab Number : **06073814** **Diagnosed** : 31 Jan 2024
Unique Number : 10855905 **Diagnostician** : Jonathan Hester
Test Package : MOB 1 (Additional Tests: PrtCount)

Kemp Quarries - River Valley - Ozark
 9446 N Hwy 309
 Ozark, AR
 US 72949
 Contact:
 ozark@rivervalleyquarries.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: