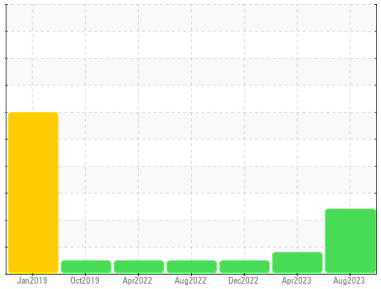
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

Area
KEMP QUARRIES / RIVER VALLEY ARKOMA
Machine Id
OHT102
Component
Front Left Final Drive
Fluid
MOBIL MOBILUBE HD 80W90 (--- GAL)

Sample Rating Trend



WEAR

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
Bearing and/or bushing wear is indicated.

Contamination
Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition
Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0083940**	PCA0070399	PCA0070470
Sample Date		Client Info		**22 Aug 2023**	20 Apr 2023	09 Dec 2022
Machine Age	hrs	Client Info		**29115**	28531	27903
Oil Age	hrs	Client Info		**29115**	28531	27510
Oil Changed		Client Info		**Changed**	Changed	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	**132**	260	241
Chromium	ppm	ASTM D5185m	>10	**<1**	2	2
Nickel	ppm	ASTM D5185m	>5	**<1**	<1	0
Titanium	ppm	ASTM D5185m	>15	**<1**	<1	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	1
Aluminum	ppm	ASTM D5185m	>75	**<1**	0	4
Lead	ppm	ASTM D5185m	>10	**2**	0	0
Copper	ppm	ASTM D5185m	>75	▲ **160**	▲ 87	48
Tin	ppm	ASTM D5185m	>8	**5**	3	2
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**95**	208	216
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**2**	14	14
Manganese	ppm	ASTM D5185m		**1**	2	2
Magnesium	ppm	ASTM D5185m		**5**	3	2
Calcium	ppm	ASTM D5185m		▲ **3523**	18	21
Phosphorus	ppm	ASTM D5185m		**953**	987	1006
Zinc	ppm	ASTM D5185m		▲ **1091**	19	19
Sulfur	ppm	ASTM D5185m		▲ **6758**	18684	22577

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	**18**	8	8
Sodium	ppm	ASTM D5185m		**1**	<1	0
Potassium	ppm	ASTM D5185m	>20	**2**	<1	1

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**LIGHT**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	MODER	MODER
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	▲ **MODER**	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	136	**190**	138	138

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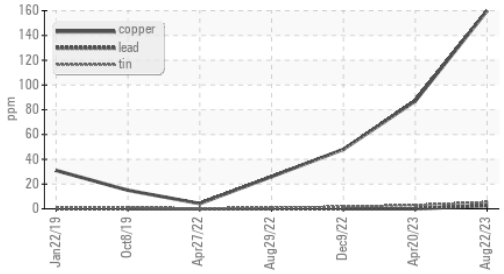
Non-ferrous Metals

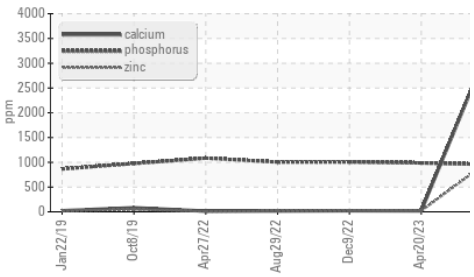


SAMPLE IMAGES

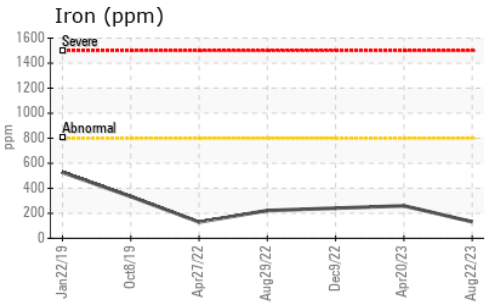
	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

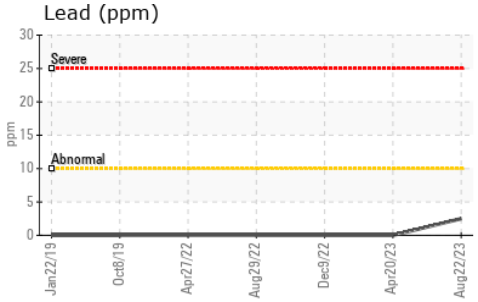
Additives



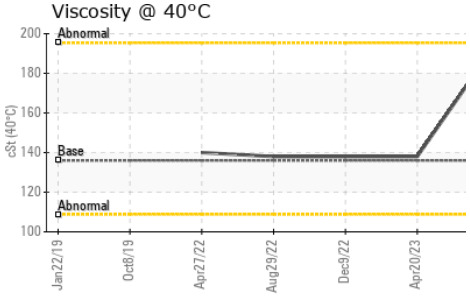
Iron (ppm)



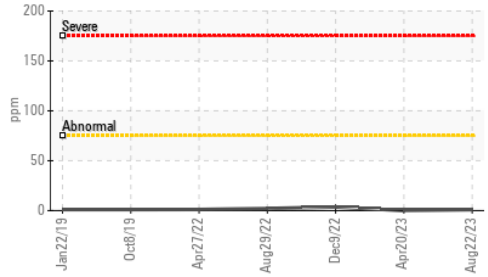
Lead (ppm)



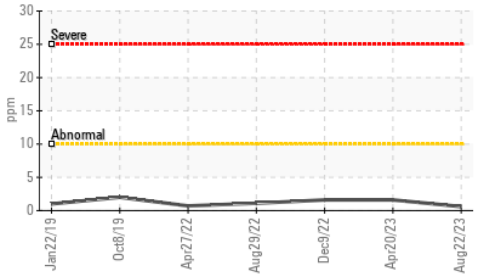
Viscosity @ 40°C



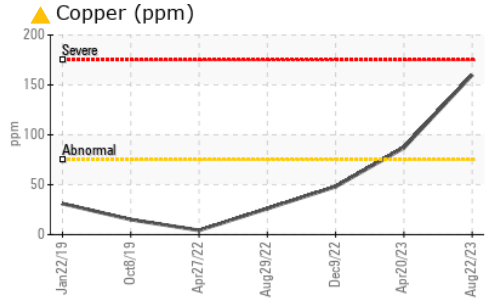
Aluminum (ppm)



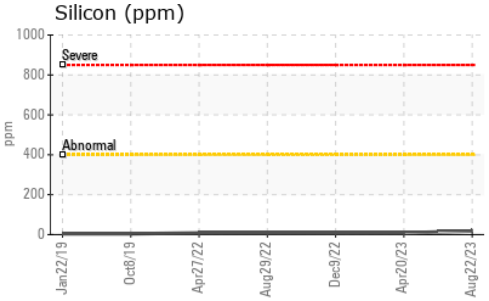
Chromium (ppm)



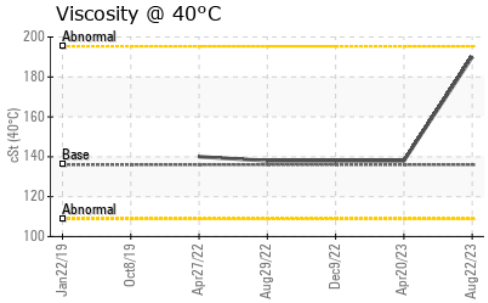
Copper (ppm)



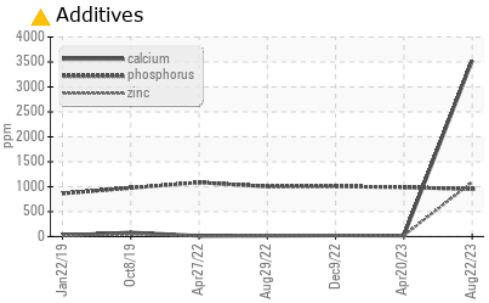
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0083940
Lab Number : 05936846
Unique Number : 10622117
Test Package : MOB 1

Received : 28 Aug 2023
Diagnosed : 29 Aug 2023
Diagnostician : Sean Felton

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)

Kemp Quarries - River Valley - Arkoma
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Shawnee, OK
US 74804
Contact:
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F:

Report Id: KEMSHA [WUSCAR] 05936846 (Generated: 08/29/2023 15:59:35) Rev: 1

Submitted By: