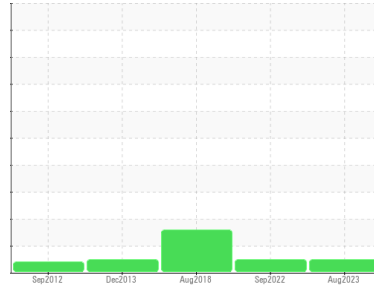


OIL ANALYSIS REPORT



Area
KEMP QUARRIES / BCS - GRAVETTE [65545]
Machine Id
7266
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

Sample Rating Trend



NORMAL

✓

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Changed fluid and filters . Engine has fuel / oil leak top galley)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0086400	PCA0062443	PCA39422055
Sample Date	Client Info			22 Aug 2023	22 Sep 2022	20 Aug 2018
Machine Age	hrs Client Info			16174	15867	3913
Oil Age	hrs Client Info			16174	15867	500
Oil Changed	Client Info			Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

CONTAMINATION

		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	<1.0
Glycol	WC Method			NEG	NEG	0.0

WEAR METALS

		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	16	52
Chromium	ppm	ASTM D5185m	>20	1	1	8
Nickel	ppm	ASTM D5185m	>2	<1	0	2
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	3	8
Lead	ppm	ASTM D5185m	>40	<1	2	25
Copper	ppm	ASTM D5185m	>330	1	3	143
Tin	ppm	ASTM D5185m	>15	<1	<1	3
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES

		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	34
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	70	70	51
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	0	1102	1059	615
Calcium	ppm	ASTM D5185m		1252	1235	1961
Phosphorus	ppm	ASTM D5185m		1151	1144	945
Zinc	ppm	ASTM D5185m		1400	1385	1122
Sulfur	ppm	ASTM D5185m		3943	3855	---

CONTAMINANTS

		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	▲ 16
Sodium	ppm	ASTM D5185m		2	0	2
Potassium	ppm	ASTM D5185m	>20	0	2	5

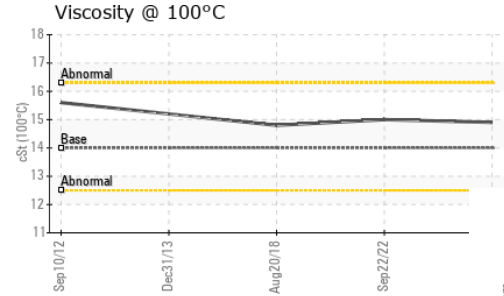
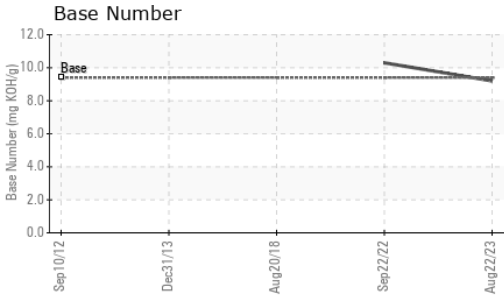
INFRA-RED

		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.34
Nitration	Abs/cm	*ASTM D7624	>20	6.8	8.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	20.1	---

FLUID DEGRADATION

		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	16.9	6
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.2	10.3	---

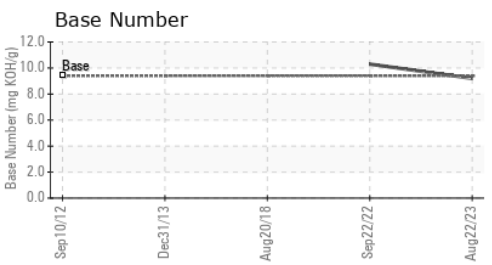
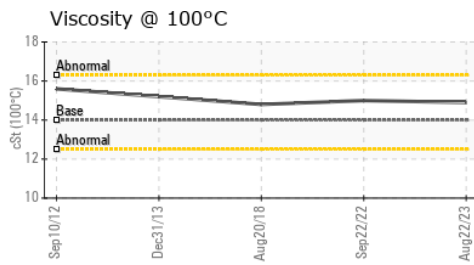
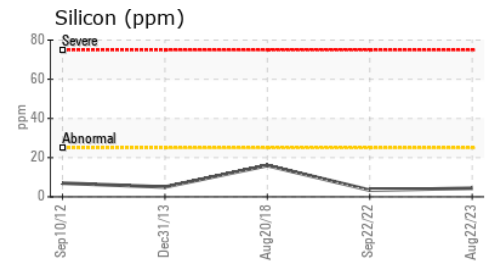
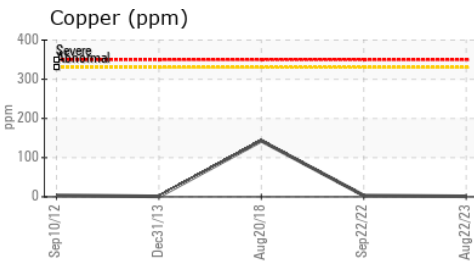
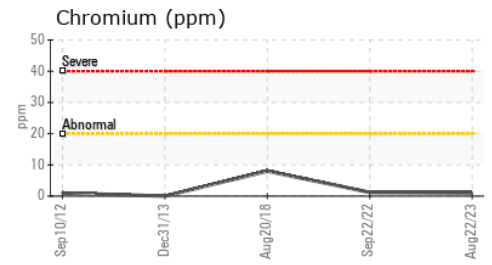
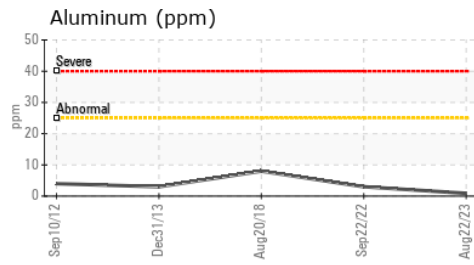
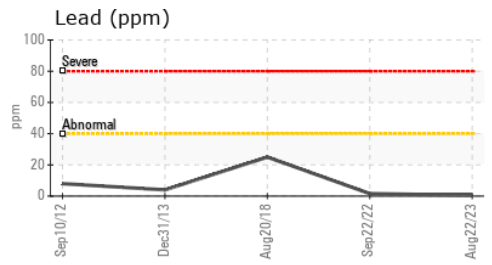
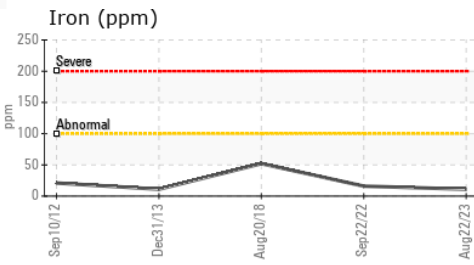
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445 14	14.9	15.0	14.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0086400 **Received** : 05 Sep 2023
Lab Number : **05941990** **Diagnosed** : 07 Sep 2023
Unique Number : 10632602 **Diagnostician** : Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

Kemp Quarries - Benton County Stone - Gravette
 15100 N Hwy 59
 Sulphur Springs, AR
 US 72768
 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)

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 T:
 F: