

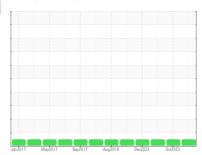
OIL ANALYSIS REPORT

KEMP QUARRIES / HULBERT Machine Id WL105

Component

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)



Sample Rating Trend



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

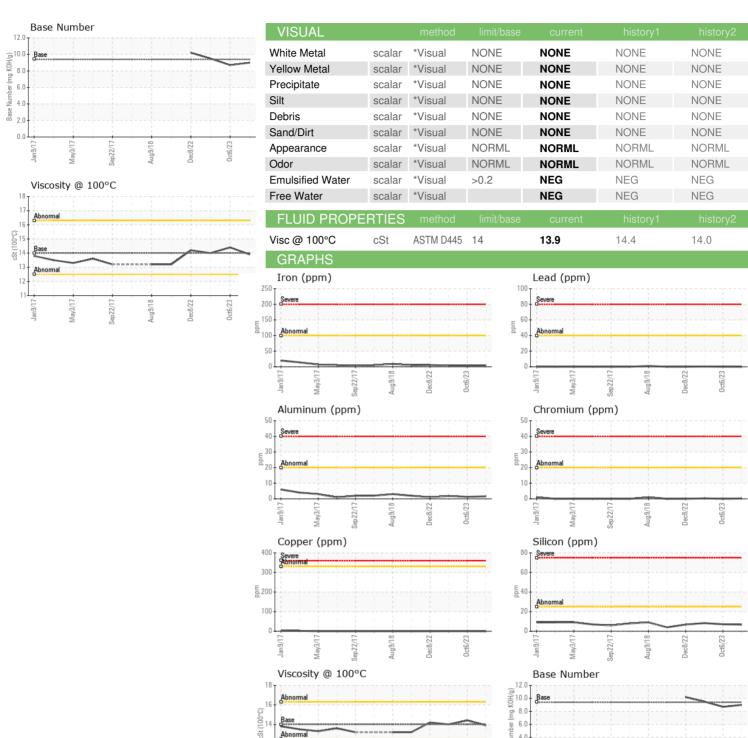
Fluid Condition

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109282	PCA0086792	PCA0086181
Sample Date		Client Info		30 Dec 2023	06 Oct 2023	11 Feb 2023
Machine Age	hrs	Client Info		6725	6504	6067
Oil Age	hrs	Client Info		0	6067	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	4	3	4
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	2
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	0	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
				-		
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1	history2
	ppm		0		•	•
Boron		ASTM D5185m	0	0	<1	1
Boron Barium	ppm	ASTM D5185m ASTM D5185m	0	0	<1	1 0
Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0	0 0 64	<1 0 58	1 0 63
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	0 0 64 0	<1 0 58	1 0 63 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	0 0 64 0 1036	<1 0 58 0 962	1 0 63 <1 942
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	0 0 64 0 1036 1117	<1 0 58 0 962 1064	1 0 63 <1 942 1146
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	0 0 64 0 1036 1117	<1 0 58 0 962 1064 1001	1 0 63 <1 942 1146 1037
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	0 0 64 0 1036 1117 1014	<1 0 58 0 962 1064 1001 1243	1 0 63 <1 942 1146 1037 1247
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0	0 0 64 0 1036 1117 1014 1290 3130	<1 0 58 0 962 1064 1001 1243 3068	1 0 63 <1 942 1146 1037 1247 3059
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0	0 0 64 0 1036 1117 1014 1290 3130	<1 0 58 0 962 1064 1001 1243 3068 history1	1 0 63 <1 942 1146 1037 1247 3059 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 limit/base >25	0 0 64 0 1036 1117 1014 1290 3130 current	<1 0 58 0 962 1064 1001 1243 3068 history1	1 0 63 <1 942 1146 1037 1247 3059 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm	ASTM D5185m	0 0 0 0 limit/base >25	0 0 64 0 1036 1117 1014 1290 3130 current 7	<1 0 58 0 962 1064 1001 1243 3068 history1 7	1 0 63 <1 942 1146 1037 1247 3059 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm	ASTM D5185m	0 0 0 0 limit/base >25 >20	0 0 64 0 1036 1117 1014 1290 3130 current 7 <1	<1 0 58 0 962 1064 1001 1243 3068 history1 7 2 3	1 0 63 <1 942 1146 1037 1247 3059 history2 8 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 0 limit/base >25 >20 limit/base >3	0 0 64 0 1036 1117 1014 1290 3130 current 7 <1	<1 0 58 0 962 1064 1001 1243 3068 history1 7 2 3	1 0 63 <1 942 1146 1037 1247 3059 history2 8 1 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0 limit/base >25 >20 limit/base >3	0 0 64 0 1036 1117 1014 1290 3130 current 7 <1 1	<1 0 58 0 962 1064 1001 1243 3068 history1 7 2 3 history1 0.1	1 0 63 <1 942 1146 1037 1247 3059 history2 8 1 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm	ASTM D5185m Method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 limit/base >25 >20 limit/base >3 >20	0 0 64 0 1036 1117 1014 1290 3130 current 7 <1 1 current 0.2	<1 0 58 0 962 1064 1001 1243 3068 history1 7 2 3 history1 0.1 4.8	1 0 63 <1 942 1146 1037 1247 3059 history2 8 1 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m Method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	0 0 0 0 0 limit/base >25 >20 limit/base >3 >20 >30	0 0 64 0 1036 1117 1014 1290 3130 current 7 <1 1 1 current 0.2 5.2	<1 0 58 0 962 1064 1001 1243 3068 history1 7 2 3 history1 0.1 4.8 16.7	1 0 63 <1 942 1146 1037 1247 3059 history2 8 1 <1 history2 0.1 5.0 17.2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAI	ppm	ASTM D5185m Method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7844 *ASTM D7844 *ASTM D7844 *ASTM D7844	0 0 0 0 0 limit/base >25 >20 limit/base >3 >20 >30 limit/base	0 0 64 0 1036 1117 1014 1290 3130 current 7 <1 1 current 0.2 5.2 17.2	<1 0 58 0 962 1064 1001 1243 3068 history1 7 2 3 history1 0.1 4.8 16.7 history1	1 0 63 <1 942 1146 1037 1247 3059 history2 8 1 <1 history2 0.1 5.0 17.2 history2



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: 10823250

10

: PCA0109282 : 06057301

Diagnosed Diagnostician

: Sean Felton Test Package : MOB 1 (Additional Tests: TBN)

Recieved

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 - Kemp Stone - Hulbert

6.0 4.0 Base 2.0

0.0

Oct6/23 -

: 10 Jan 2024

: 12 Jan 2024

17801 Hwy 80 Hulbert, OK US 74441

Contact:

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