

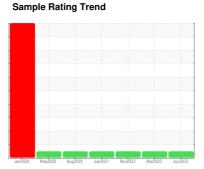
# **OIL ANALYSIS REPORT**



# KEMP QUARRIES / KEMP STONE - FAIRLAND **OHT108**

Component **Diesel Engine** 

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)





### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: PM-2 changed fluid and filters )

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

#### **Fluid Condition**

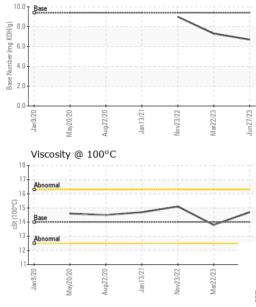
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

301 E1113W40 (	- GAL)	Jan2020	May2020 Aug2020	Jan2021 Nov2022 Mar2023	Jun2023	
SAMPLE INFORI	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0086376	PCA0086031	PCA0062079
Sample Date		Client Info		27 Jun 2023	22 Mar 2023	23 Nov 2022
Machine Age	hrs	Client Info		22548	22088	21621
Oil Age	hrs	Client Info		22548	22088	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	54	42	55
Chromium	ppm	ASTM D5185m	>6	2	2	3
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	<1	4	2
Lead	ppm	ASTM D5185m	>10	8	3	11
Copper	ppm	ASTM D5185m	>150	11	9	15
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	2	33	3
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	60	57	65
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	1010	823	991
Calcium	ppm	ASTM D5185m		1251	1266	1273
Phosphorus	ppm	ASTM D5185m		1072	1025	1117
Zinc	ppm	ASTM D5185m		1366	1233	1395
Sulfur	ppm	ASTM D5185m		3828	3083	3684
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>20	9	11	11
Sodium	ppm	ASTM D5185m		3	0	2
Potassium	ppm	ASTM D5185m	>20	1	3	2
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	1.3	1.3	1.2
Nitration	Abs/cm	*ASTM D7624	>20	10.0	11.7	12.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.0	24.2	27.0
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	19.0	22.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	6.7	7.3	9.0
(211)				<u> </u>		



Base Number

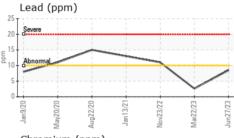
## **OIL ANALYSIS REPORT**

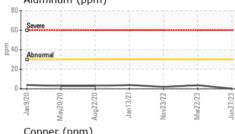


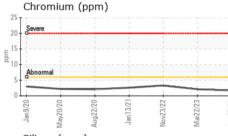
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
ELLUD DDODE	DTIES					11.

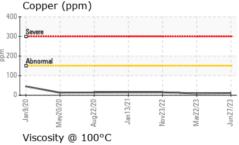
FLUID FROF		memou			Thistory i	filstory 2
Visc @ 100°C	cSt	ASTM D445	14	14.7	13.8	15.1

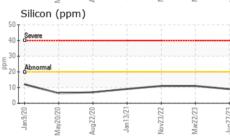
200	Iron (	ppm)					
150	Severe						
_	Abgorm	al	1		  -  -	1	
등 100· 50·						-	
0.							
	Jan9/20	May20/20 .	Aug22/20	Jan 13/21.	Nov23/22 -	Mar22/23 -	Jun27/23
Aluminum (ppm)							
80-	T						

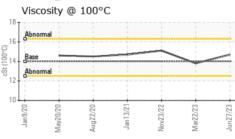


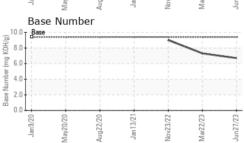














Laboratory Sample No. Lab Number **Unique Number** 

: PCA0086376 : 05889643 : 10540126

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

: 03 Jul 2023 Diagnosed : 06 Jul 2023 Diagnostician : Don Baldridge Test Package : MOB 1 (Additional Tests: TBN)

Contact: fairland@kempstone.com

Kemp Quarries - Kemp Stone - Fairland

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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