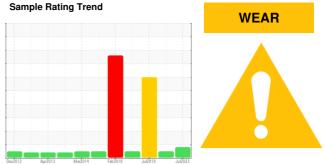


# **OIL ANALYSIS REPORT**

# KEMP QUARRIES / BCS - STILLWELL **TTH018**

Component **Diesel Engine** 

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)



### **DIAGNOSIS**

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: PM-1 changed filters and fluid )

#### Wear

The lead level is abnormal.

#### 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.

,		Dec2012	Apr2013 Mar2014	Feb2018 Jul2019	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0086389	PCA0025468	PCA14234030
Sample Date		Client Info		05 Jul 2023	28 Jan 2022	24 Jul 2019
Machine Age	hrs	Client Info		832	242	5288
Oil Age	hrs	Client Info		832	242	314
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	NORMAL	SEVERE
CONTAMINATI	ON	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	0.0
WEAR METALS	3	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>90	56	25	172
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>2	1	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	1	3
Lead	ppm	ASTM D5185m	>40	<b>44</b>	5	4
Copper	ppm	ASTM D5185m	>330	31	3	3
Tin	ppm	ASTM D5185m	>15	6	1	2
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	2	8	38
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	64	63	37
Manganese	ppm	ASTM D5185m		1	<1	0
Magnesium	ppm	ASTM D5185m	0	1034	985	474
Calcium	ppm	ASTM D5185m		1154	1195	1635
Phosphorus	ppm	ASTM D5185m		1063	1036	701
Zinc	ppm	ASTM D5185m		1370	1285	852
Sulfur	ppm	ASTM D5185m		3428	2663	
CONTAMINAN		method	limit/base	current	history 1	history 2
Silicon	ppm		>25	6	4	9
Sodium	ppm	ASTM D5185m	720	3	3	4
Potassium	ppm	ASTM D5185m	>20	<1	0	1
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>6	1.1	0.3	1.72
Nitration	Abs/cm	*ASTM D7624	>20	8.8	7.2	
Sulfation	Abs/.1mm	*ASTM D7024		21.9	20.5	
FLUID DEGRAD			limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	16.0	4
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	7.2	9.1	4
Dase Number (DIV)	my NOT/y	79 I M D7030	3.4	1.4	9.1	



## **OIL ANALYSIS REPORT**







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

: PCA0086389 : 05894259 : 10550069

Received Diagnosed

: 12 Jul 2023 Diagnostician : Don Baldridge

: 10 Jul 2023

Test Package : MOB 1 ( Additional Tests: TBN ) 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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