

## **OIL ANALYSIS REPORT**

# KEMP QUARRIES / RIVER VALLEY OZARK **TTH017**

Component **Diesel Engine** 

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Performed pm-4 on 1/10/24)

### 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.



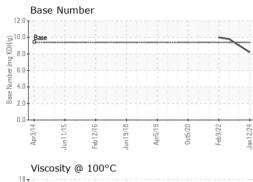


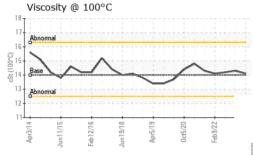
NORMAL

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0084493	PCA0037184	PCA0048245
Sample Date		Client Info		12 Jan 2024	13 Jan 2023	05 Apr 2022
Machine Age	hrs	Client Info		5255	18563	4336
Oil Age	hrs	Client Info		5255	300	300
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	>279	10	23	7
Chromium	ppm	ASTM D5185m	>21	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	1	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>21	2	2	2
Lead	ppm	ASTM D5185m	>10	1	2	1
Copper	ppm	ASTM D5185m	>18	2	15	<1
Tin	ppm	ASTM D5185m	>9	<1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	1	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	56	54	51
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	0	866	791	908
Calcium	ppm	ASTM D5185m		1047	1245	1401
Phosphorus	ppm	ASTM D5185m		888	1000	1076
Zinc	ppm	ASTM D5185m		1117	1182	1247
Sulfur	ppm	ASTM D5185m		3748	2867	2979
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>49	3	7	2
Sodium	ppm	ASTM D5185m		0	3	1
Potassium	ppm	ASTM D5185m	>20	2	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.6	6.6	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	18.2	19.7
FLUID DEGRA		method	limit/base	current	history1	history2
FLUID DEGNAL		mounou	initia bacco	oanom	i illocor y i	
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	13.9	14.0



# **OIL ANALYSIS REPORT**







Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

Laboratory

Sample No.

Lab Number

Unique Number