

## **OIL ANALYSIS REPORT**

## Sample Rating Trend



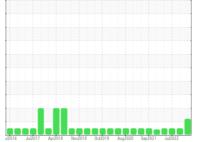


# KEMP QUARRIES / NEOSHO Machine Id WL111

Component

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)



### DIAGNOSIS

#### Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: PM-3 changed filters and fluid )

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of fuel present in the oil

#### ▲ Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORI	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0086325	PCA0086037	PCA0037721
Sample Date		Client Info		19 Jun 2023	21 Mar 2023	01 Jul 2022
Machine Age	hrs	Client Info		29243	28833	28351
Oil Age	hrs	Client Info		29243	28833	28351
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	18	37	31
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	1
Aluminum	ppm	ASTM D5185m	>25	0	2	2
Lead	ppm	ASTM D5185m	>40	2	2	2
Copper	ppm	ASTM D5185m	>330	9	14	16
Tin	ppm	ASTM D5185m	>15	1	2	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0	0	5
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	56	62	62
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	868	912	981
Calcium	ppm	ASTM D5185m		998	1101	1118
Phosphorus	ppm	ASTM D5185m		940	1033	1050
Zinc	ppm	ASTM D5185m		1122	1240	1296
Sulfur	ppm	ASTM D5185m		2863	3270	3720
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	7	5	5
Sodium	ppm	ASTM D5185m		<1	0	2
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
Fuel	%	ASTM D3524	>5	<b>△</b> 6.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.3	0.5	0.5
			00	4	7.0	
Nitration	Abs/cm	*ASTM D7624	>20	17.5	7.0	7.5
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>30	17.5 23.8	19.0	20.0
	Abs/.1mm	*ASTM D7415				
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	19.0	20.0



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

: 05888185 : 10538668

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 Jun 2023 : PCA0086325 Diagnosed : 06 Jul 2023

Diagnostician : Jonathan Hester Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, 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)

Kemp Quarries - Kemp Stone - Neosho

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