

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

# NORMAL



# KEMP QUARRIES / RIVER VALLEY BACKBONE Machine Id WL035

Component
Front Left Final Drive

**MOBIL MOBILTRANS HD 50 (--- GAL)** 

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Hours on machine 44859)

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

#### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

HD 50 ( GAL)						
SAMPLE INFOR		Nov2010	Nov2013 Jun2016	Mar2018 Oct2018 Feb2020	0ct2023	history O
	IMA HON		limit/base		history1	history2
Sample Number		Client Info		PCA0084890	PCA0084873	PCA0014480
Sample Date		Client Info		25 Oct 2023	26 Sep 2023	19 Feb 2020
Machine Age	hrs	Client Info		44859	44539	42600
Oil Age	hrs	Client Info		1200	46856	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	195	160	144
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>15	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	1	2	1
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m		2	2	1
Tin	ppm	ASTM D5185m	>8	0	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m	, 00	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5	6	18
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	0	8
Manganese	ppm	ASTM D5185m		2	2	1
Magnesium	ppm	ASTM D5185m		37	27	121
Calcium	ppm	ASTM D5185m		2340	2898	2471
Phosphorus	ppm	ASTM D5185m		853	1081	820
Zinc	ppm	ASTM D5105m		1102	1302	926
Sulfur	ppm	ASTM D5105m		5682	7111	8969
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		13	13	8
Sodium	ppm	ASTM D5185m		2	<1	2
Potassium	ppm	ASTM D5185m		0	0	1
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ HEAVY
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
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NORML

**NORML** 

NEG

**NEG** 

NORML

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>0.2

Appearance

Free Water

**Emulsified Water** 

Odor

**NORML** 

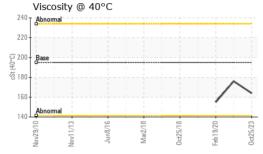
NORML

NEG

NEG



# **OIL ANALYSIS REPORT**





GRAPH												
Iron (ppn	n)					Lead 30 T	d (ppm	)				
Severe						25 - Severe			-	-		
						20 E 15						
Abnormal						10 Abnor	mal					
		~				5						
Nov29/10 +	Jun8/16	Mar2/18 +	5/18	9/20	0ct25/23 +	0 1	1/13	Jun8/16 -	Mar2/18 -	5/18	9/20	5/23
Nov29/10	Jung	Mar	Oct25/18	Feb19/20	0ct2!	Nov29/10	Nov11/13		Mar	Oct25/18	Feb19/20	0ct25/23
Aluminun	n (ppm)					Chro	omium	(ppm)				
Severe		-				25 - Severe			-			
						20						
Abnormal						15 - Abnor	mal			1		
						5						
13	- 91	80	80	- 02	23	0 1	13	91	- 0		20	23
Nov29/10 Nov11/13	Jun8/16	Mar2/18	Oct25/18	Feb19/20	Oct25/23	Nov29/10	Nov11/13	Jun8/16	Mar2/18	Oct25/18	Feb19/20	Oct25/23
Copper (	ppm)					Silic	on (pp	m)				
Severe						Severe						
						600						
Abnormal						Abnor	mal					
						200						
				- :		0		- 69			- :	3
Nov29/10 Nov11/13	Jun8/16	Mar2/18	0ct25/18	Feb19/20	Oct25/23	Nov29/10	Nov11/13	Jun8/16	Mar2/18	Oct25/18	Feb19/20	Oct25/23
z z Viscosity			0	ш.	0		z itives				Œ	
Abnormal						3500 T	calciu	m.				
						2500	***** zinc		_		/	1
- Base						E 2000	~					
				/	~	1500						
Abnormal						500	Zantanaka Maria	near-Management	TARREST OF THE PERSON NAMED IN	1111	-	NA SANGER
Nov29/10 -	Jun8/16 -	Mar2/18 -	0ct25/18 -	Feb 19/20 -	Oct25/23	Nov29/10	Nov11/13-	Jun8/16 -	Mar2/18 -	Oct25/18 -	Feb19/20 -	Oct25/23
Nov	곡	Ξ	Oct	귤	Oct	Nov	Nov	곡	Σ	Oct	귤	Oct



Certificate L2367

Report Id: KEMHUN [WUSCAR] 06000068 (Generated: 11/08/2023 12:20:17) Rev: 1

Laboratory Sample No. Lab Number Unique Number : 10728428

: PCA0084890 : 06000068 Test Package : MOB 1

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Nov 2023 Diagnosed : 08 Nov 2023

Diagnostician : Sean Felton

Kemp Quarries - River Valley - Backbone

5600 S Hwy 253 Huntington, AR UŠ 72940

Contact:

T:

F:

backbone@rivervalleyquarries.com

\* - 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)

Submitted By: ??