

# **OIL ANALYSIS REPORT**

## Sample Rating Trend





# KEMP QUARRIES / RIVER VALLEY OZARK Machine Id WL033

Component
Rear Right Final Drive

MOBIL MOBILTRANS HD 50 (--- GAL)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### 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)		:t2010 Jun201:	2 Jun2015 Jul2016 Oct201	7 Feb2020 Apr2021 Sep2021 Jul20	122 Jul2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0069759	PCA0069693	PCA0084567
Sample Date		Client Info		10 Oct 2023	31 Jul 2023	23 May 2023
Machine Age	hrs	Client Info		42265	42005	41725
Oil Age	hrs	Client Info		323556	323556	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	66	69	104
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>15	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	2	2	2
Lead	ppm	ASTM D5185m	>10	<1	<1	<1
Copper	ppm	ASTM D5185m	>75	2	4	2
Tin	ppm	ASTM D5185m	>8	1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	1	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	2	2
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		15	22	25
Calcium	ppm	ASTM D5185m		3163	2076	2261
Phosphorus	ppm	ASTM D5185m		821	894	935
Zinc	ppm	ASTM D5185m		1124	1070	1167
Sulfur	ppm	ASTM D5185m		4004	4122	5284
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	19	8	12
Sodium	ppm	ASTM D5185m		2	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	1	<1
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual	-	NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

Visc @ 40°C

cSt

ASTM D445 195

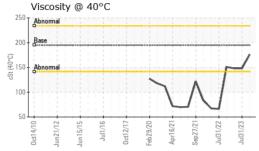
176

148

148



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SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

Aluminum (ppm)  Chromium (ppm)  200  201  201  201  201  201  201  20	Bottom					- Tre mage
Iron (ppm)	GRAPHS					
200   200	Iron (ppm)			Lead (ppm)		
200	00 - 00 - 00 - <mark>Abnormal</mark>			20 - E 15		
Aluminum (ppm)    Chromium (ppm)   Chrom	0	~~	1	0		^~
Abnormal	Oct14/10 Jun21/12 Jun15/15	Oct12/17 Feb29/20 Apr16/21	Sep27/21 Jul31/22 Jul31/23	Oct14/10 Jun21/12 Jun15/15	Jul1/16 Oct12/17 Feb29/20 Apr16/21	Sep27/21- Jul31/22
Abnormal	Aluminum (pp	m)		Chromium (p	pm)	
Abnormal	Severe			0		
Abnormal   10   Abnormal   1						
Copper (ppm)  Severe  Solicon (ppm)  Severe  Solicon (ppm)  Severe  Solicon (ppm)  Solicon (ppm)	Abnormal			10 Abnormal		
	Oct14/10 1	Oct12/17	Sep27/21- Jui31/22		Jull/16 0ct12/17 Feb29/20	Sep27/21- Jul31/22
Severe   S	Copper (ppm)			Silicon (ppm)		
Abnormal  Viscosity @ 40°C  Abnormal  Viscosity @ 40°C  Abnormal	Severe			Severe		
Abnormal   Annormal				600		
Out 4/10	Abnormal			Abnormal 400		
Ouththo   Outh	50		٨	200		
Viscosity @ 40°C  Abnormal  Do Base  2500  Abnormal  Abnormal  2000  1500  500		Oct12/17	sep27/21	oct14/10un21/12un15/15	Jull/16 Oct12/17 eb29/20	Sep27/21
3000 calcium phosphous  3000 Abnormal  2000 1500 1500 1500 1500	, ,		, , ,	, ,		0, ,
00 Base 2500 2500 2000 2000 2000 2000 2000 200	Abnormal			annn calcium		
1000				2500 - ********* zinc	1	1
1000	50 - Abnormal			d.		
50		7	$\Lambda$		7	AK
	50		7 7	0		a A
0ct14/10 Jun15/15 Jun15/15 Jun15/15 Jul1/16 Oct12/17 Jun15/15 Jul11/16 Oct14/10 Oct12/17 Feb29/20 Apr16/21 Jun15/15 Jun15/17 Jun1	Jet14/10 un21/12 un15/15	Jet12/17 eb29/20	Sep 27/2 Jul 31/22 Jul 31/23	0ct14/1C un21/12 un15/15	Jull/16 Oct12/17 eb29/20 Apr16/21	Sep27/21 Jul31/22 Jul31/23





Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10708561 Test Package : MOB 1

: PCA0069759 : 05985899

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Oct 2023 Diagnosed : 23 Oct 2023

Diagnostician : Wes Davis

Kemp Quarries - River Valley - Ozark

9446 N Hwy 309 Ozark, AR US 72949

Contact: OZARK NOTIFICATIONS ozark@rivervalleyquarries.com

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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