

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

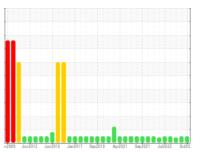


KEMP QUARRIES / RIVER VALLEY OZARK **WL033**

Component

Transmission (Manual)

MOBIL MOBILTRANS HD 30 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

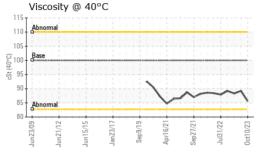
Fluid Condition

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

CAMPLE INFOR		l mothod	limit/booo	O. I.K. C. D. T.	histor:1	history?
SAMPLE INFOR	MATION		limit/base	current	history1	history2
Sample Number		Client Info		PCA0069764	PCA0069685	PCA0084564
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		39350	39350	39350
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	9	17	20
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>7	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	3	5	4
Lead	ppm	ASTM D5185m	>45	0	<1	<1
Copper	ppm	ASTM D5185m	>225	1	2	<1
Tin	ppm		>10	- <1	0	0
Vanadium	ppm	ASTM D5185m	>10	0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	2	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	4	5
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium		ASTM D5185m		43	51	62
Calcium	ppm			2534	2495	2525
	ppm	ASTM D5185m				
Phosphorus	ppm	ASTM D5185m		878	903	947
Zinc	ppm	ASTM D5185m		1068	1057	1184
Sulfur	ppm	ASTM D5185m		3544	4058	4708
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	7	8	10
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	NONE
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	▲ MODER
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	>0.1	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	100	85.6	89.2	88.3
50 40\ D	-					



OIL ANALYSIS REPORT





GRAP									
Iron (pp	m)							Lead (ppm)	
Severe								Severe	
	++++		++++		++++			80	
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								40	
								20	
7		-	→	21=	<u>^_</u>	$\frac{1}{2}$	33	22	22
Jun21/12	Jun15/15	Jan23/17	Sep9/19	Apr16/21	Sep27/21	Jul31/22	Oct10/23	Jun21/12 Jun15/15 Jun15/15 Jan23/17 Sep9/19 Sep2/721	Jul31/22
, ¬					*			Chromium (ppm)	
Severe	1777	177	F T 7 F					12	
								10 Severe	
Abnormal		щ.						8	
								Abnormal	
								2	
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Jun21/12	Jun15/15	Jan23/17	Sep9/19	Apr16/21	Sep27/21	Jul31/22	Oct10/23	Jun 23/09 Jun 11/12 Jun 15/15 Jan 23/17 Sep 9/19 Sep 27/21	Jul31/22
			co.	Ā	Š	Š	ŏ	7 7 7 7	Ť
Copper	(ppm) 110 110			11171			Silicon (ppm)	
Savara								250 - Severe	
OCCUT.	11111			Hill				200	
Abnormal								Abnormal	
	٨							100	
	_/\							50	~~
Jun21/12	Jun15/15	Jan23/17	Sep9/19	Apr16/21	Sep27/21-	Jul31/22	Oct10/23	Jun23/09 - Jun21/12 - Jun15/15 - Jun15/15 - Jun15/15 - Sep9/19 - Sep27/21 -	Jul31/22
			Sel	Apr	Sep	Sin	Oct	Junî Junî Janî Sep Sep	Sim
√iscosity	/ @ 40	0°C						Additives	
Abnormal								3000 calcium phosphorus	
Pers								2500 zinc	1
Base								2000-	
			\					1500	
Abnormal				V	~		1	1000	N.
Jun21/12	Jun15/15	Jan23/17	Sep9/19	Apr16/21	Sep27/21	Jul31/22	0ct10/23	Jun 23/09 Jun 23/17 Jun 23/17 Sep 9/19 Apr 16/21 Sep 7//21	Jul31/22
s >	2	5	6	9		~	-	7 6 9 3 5 1	-



Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10708588

: PCA0069764 : 05985926

Test Package : MOB 1

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

Diagnostician : Wes Davis

Kemp Quarries - River Valley - Ozark

9446 N Hwy 309 Ozark, AR US 72949

Contact:

ozark@rivervalleyquarries.com

T: F:

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)