

OIL ANALYSIS REPORT

KEMP QUARRIES / RIVER VALLEY BACKBONE **WL079**

Component

Front Left Final Drive

MOBIL MOBILTRANS HD 50 (--- GAL)





DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: Hour meter 47885)

Wear

High concentration of visible metal present. Bearing and/or bushing wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

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SAMPLE INFOR	RMATION	M method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0085858	PCA0085839	PCA003711
Sample Date		Client Info		09 Aug 2023	06 Apr 2023	19 Jan 2023
Machine Age	hrs	Client Info		47885	47308	46970
Oil Age	hrs	Client Info		900	338	1200
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	32	16	33
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	1	0	0
Titanium	ppm	ASTM D5185m	>15	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	3	<1	2
Lead	ppm	ASTM D5185m	>10	4 6	7	5
Copper	ppm	ASTM D5185m	>75	197	20	10
Tin	ppm	ASTM D5185m	>8	<u> 14</u>	<1	1
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
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	1	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		24	33	25
Calcium	ppm	ASTM D5185m		3123	3145	3019
Phosphorus	ppm	ASTM D5185m		1013	985	868
Zinc	ppm	ASTM D5185m		1213	1267	1140
Sulfur	ppm	ASTM D5185m		7141	7801	8860
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	15	12	15
Sodium	ppm	ASTM D5185m		0	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	▲ HEAVY	▲ HEAVY	MODER
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 PROPI	ERTIES	method	limit/base	current	history1	history2

Visc @ 40°C

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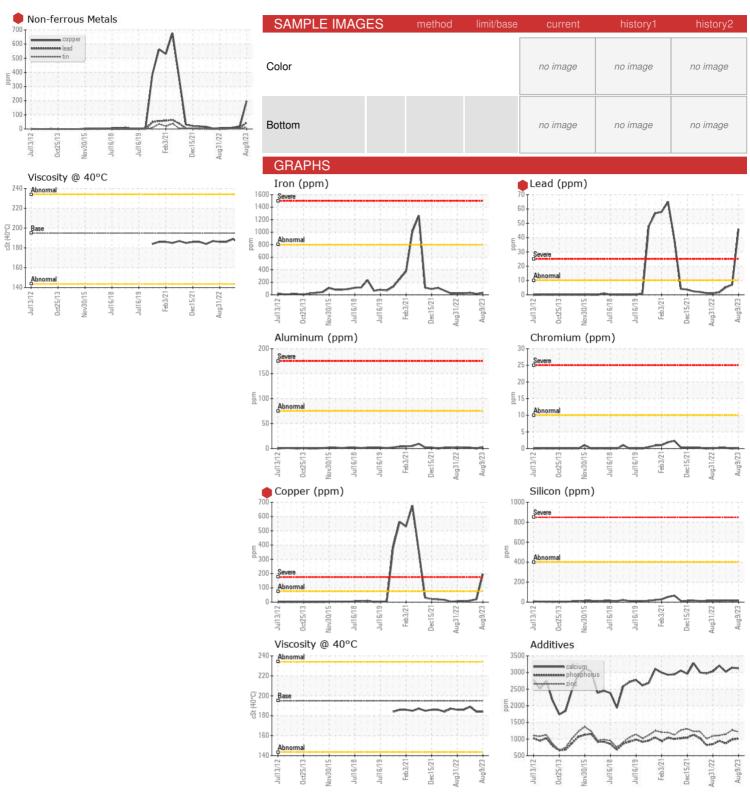
ASTM D445 195

184

184



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Certificate L2367

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

: PCA0085858 : 05924554 : 10604501 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Aug 2023 Diagnosed : 16 Aug 2023 : Jonathan Hester Diagnostician

Kemp Quarries - River Valley - Backbone

5600 S Hwy 253 Huntington, AR US 72940

Contact:

F:

backbone@rivervalleyquarries.com

T:

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)