

OIL ANALYSIS REPORT

Sample Rating Trend

VISUAL METAL



KEMP QUARRIES / RIVER VALLEY BACKBONE WL079

Component

Front Right Final Drive

MOBIL MOBILTRANS HD 50 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

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

2012 Aug2013 Jun2014 Jur2017 Jan2019 Aug2020 Aug2021 Min/2022 Jan2023 Dec20						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0084792	PCA0085848	PCA0085856
Sample Date		Client Info		28 Dec 2023	13 Oct 2023	09 Aug 2023
Machine Age	hrs	Client Info		48609	48226	47885
Oil Age	hrs	Client Info		383	1200	900
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	SEVERE	SEVERE
CONTAMINATI	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	33	48	48
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	2	2	2
Titanium	ppm	ASTM D5185m	>15	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	2	2	4
Lead	ppm	ASTM D5185m	>10	<u>−</u> 33	8 4	• 70
Copper	ppm	ASTM D5185m	>75	<u> </u>	431	315
Tin	ppm	ASTM D5185m	>8	<u> </u>	27	23
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
	pp		11 1.0			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	<1
Barium	ppm	ASTM D5185m		0	9	0
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		19	23	35
Calcium	ppm	ASTM D5185m		3306	2987	4348
Phosphorus	ppm	ASTM D5185m		984	989	1412
Zinc	ppm	ASTM D5185m		1171	1192	1683
Sulfur	ppm	ASTM D5185m		7273	7501	9652
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	13	18	22
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	2	2	2
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	▲ HEAVY	NONE
Yellow Metal	scalar	*Visual	NONE	▲ HEAVY	NONE	▲ HEAVY
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
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Certificate L2367

Laboratory Sample No.

Lab Number Unique Number

: 06054426 : 10820375 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0084792 : 08 Jan 2024 Recieved Diagnosed

: 10 Jan 2024 : Jonathan Hester Diagnostician

Kemp Quarries - River Valley - Backbone 5600 S Hwy 253 Huntington, AR

US 72940

Contact: backbone@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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