

## **OIL ANALYSIS REPORT**





# KEMP QUARRIES / RIVER VALLEY BACKBONE WL100

Front Differential Fluid MOBIL MOBILTRANS HD 50 (--- GAL)

Area

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0108637	PCA0037179	PCA0037142
Sample Date		Client Info		28 Jun 2024	06 Apr 2023	13 Jan 2023
Machine Age	hrs	Client Info		37291	36257	35941
Oil Age	hrs	Client Info		900	945	600
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<b>4</b> 978	255	51
Chromium	ppm	ASTM D5185m	>3	3	<1	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>2	2	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>—</b> 19	11	3
Lead	ppm	ASTM D5185m	>13	1	0	0
Copper	ppm	ASTM D5185m	>103	27	3	2
Tin	ppm	ASTM D5185m	>5	0	0	0
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		2	7	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		8	2	<1
Magnesium	ppm	ASTM D5185m		30	37	28
Calcium	ppm	ASTM D5185m		2982	2966	3099
Phosphorus	ppm	ASTM D5185m		1020	1011	1012
Zinc	ppm	ASTM D5185m		1183	1242	1224
Sulfur	ppm	ASTM D5185m		8488	9476	8662
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	<b>111</b>	61	15
Sodium	ppm	ASTM D5185m		4	<1	0
Potassium	ppm	ASTM D5185m	>20	5	1	2
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	MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE

\*Visual

\*Visual

\*Visual

scalar \*Visual

scalar

scalar

scalar

Appearance

Free Water

**Emulsified Water** 

Odor

NORML

NORML

>.2

NORML

NORML

NEG

NEG

NORML

NORML

NEG

NEG

## DIAGNOSIS Recommendation

We advise that you check all areas where dirt of enter the system. We recommend that you drait oil from the component if this has not already b done. We advise that you inspect for the source of wear. We recommend an early resample to monitor this condition.

### A Wear

Gear wear is indicated.

#### Contamination

Elemental levels of silicon (Si) and aluminum (A indicate alumina-silicate (coarse dirt) ingress.

#### Fluid Condition

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

NORML

NORML

NEG

NEG



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