

# **OIL ANALYSIS REPORT**

Sample Rating Trend

limit/base

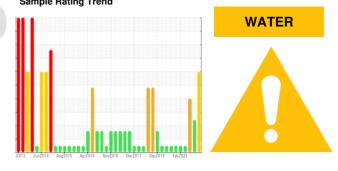


## Area **KEMP QUARRIES / HULBERT** WL067 Rear Differential

SAMPLE INFORMATION method

Fluic

MOBIL MOBILTRANS HD 50 (--- GAL)



history1

history2

current

## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

#### A Wear

High concentration of visible metal present. Gear wear is indicated.

#### Contamination

There is a moderate concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress.

#### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

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Sample Number		Client Info		PCA0085903	PCA0086822	PCA0048715
Sample Date		Client Info		05 Apr 2024	28 Jul 2023	24 Sep 2021
Machine Age	hrs	Client Info		32148	32149	29147
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<u> </u>	390	50
Chromium	ppm	ASTM D5185m	>3	2	<1	<1
Nickel	ppm	ASTM D5185m	>3	1	<1	<1
Titanium	ppm	ASTM D5185m	>2	2	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	<mark> </mark> 25	20	2
Lead	ppm	ASTM D5185m	>13	1	1	0
Copper	ppm	ASTM D5185m	>103	109	100	14
Tin	ppm	ASTM D5185m	>5	1	<1	0
Antimony	ppm	ASTM D5185m	>5			3
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	2	18
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		4	3	2
Manganese	ppm	ASTM D5185m		6	4	<1
Magnesium	ppm	ASTM D5185m		57	58	25
Calcium	ppm	ASTM D5185m		2969	2705	2508
Phosphorus	ppm	ASTM D5185m		990	993	808
Zinc	ppm	ASTM D5185m		1236	1218	926
Sulfur	ppm	ASTM D5185m		5492	5368	2897
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	<b>4</b> 187	<b>1</b> 76	21
Sodium	ppm	ASTM D5185m		6	4	2
Potassium	ppm	ASTM D5185m	>20	5	<1	0
Water	%	ASTM D6304		<u> </u>		<b>2</b> .91
ppm Water	ppm	ASTM D6304	>2000	<b>6</b> 5530		<b>2</b> 9100
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	A HEAVY	NONE	VLITE
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	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	- HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	0.2%	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
:14:48) Hev: 2						Submitted By:



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