

## **OIL ANALYSIS REPORT**

Sample Rating Trend



### KEMP QUARRIES / HULBERT **WL043** Component

**Rear Differential** 

MOBIL MOBILTRANS HD 50 (--- GAL)



DIAGNOSIS
A Recommendation

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.

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#### A Wear

Bearing and/or gear wear is indicated.

#### Contamination

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

#### Fluid Condition

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

Sample Number		Client Info		PCA0085897	PCA0086173	PCA0048858
Sample Date		Client Info		08 Mar 2024	07 Jan 2023	12 Mar 2022
Machine Age	hrs	Client Info		27117	46167	45671
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				SEVERE	SEVERE	ABNORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<b>1835</b>	1593	<b>A</b> 746
Chromium	ppm	ASTM D5185m	>3	<u> </u>	<b>4</b>	1
Nickel	ppm	ASTM D5185m	>3	2	<1	<1
Titanium	ppm	ASTM D5185m	>2	<u> </u>	2	1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>30	<mark> </mark> 29	<b>1</b> 3	6
Lead	ppm	ASTM D5185m	>13	12	7	3
Copper	ppm	ASTM D5185m	>103	🔺 117	53	21
Tin	ppm	ASTM D5185m	>5	<u> </u>	4	2
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	3	3
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		6	3	3
Manganese	ppm	ASTM D5185m		15	13	5
Magnesium	ppm	ASTM D5185m		87	37	0
Calcium	ppm	ASTM D5185m		2897	2841	3114
Phosphorus	ppm	ASTM D5185m		1159	1050	976
Zinc	ppm	ASTM D5185m		1320	1214	1293
Sulfur	ppm	ASTM D5185m		6395	6714	4078
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	<b>A</b> 331	<b>1</b> 11	52
Sodium	ppm	ASTM D5185m		12	11	5
Potassium	ppm	ASTM D5185m	>20	6	3	0
Water	%	ASTM D6304	>.2	<b>0.346</b>	▲ 0.357	
ppm Water	ppm	ASTM D6304	>2000	<b>A</b> 3460	<b>A</b> 3570	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	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	>.2	0.2%	0.2%	NEG
Free Water 0:27:05) Rev: 1	scalar	*Visual		NEG	NEG	NEG Submitted By:



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Hulbert, OK

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