

OIL ANALYSIS REPORT



ASTM D5185m >2

ASTM D5185m >75

ASTM D5185m >75

>10

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m

ppm

ppm

ppm

ppm

ppm

ppm

ppm

WATER



15

8

38

0



KEMP QUARRIES / MUSKOGEE SAND **WL056**

Silver

Lead

Tin

Copper

Vanadium

Cadmium

Aluminum

Component Front Right Final Drive

MOBIL MOBILTRANS HD 50 (--- GAL)

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. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

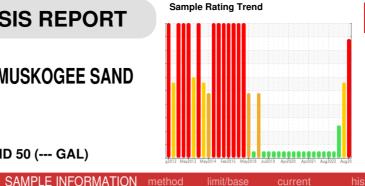
Bearing and/or bushing wear is indicated.

Contamination

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

Fluid Condition

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



Sample Number		Client Info		PCA0070430	PCA0087147	PCA0087176
Sample Date		Client Info		10 Aug 2023	06 Jun 2023	28 Feb 2023
Machine Age	hrs	Client Info		33775	33310	32585
Oil Age	hrs	Client Info		1190	725	1760
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
	S	method ASTM D5185m	limit/base >800	current	history1 424	history2
WEAR METAL					,	,
WEAR METAL	ppm	ASTM D5185m	>800	577	424	117

0

56

13

129

9

0

0

0

<u>4</u> 34

9

<u></u> 102

<1

<1

<u> 8</u>

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	2	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	1	<1
Manganese	ppm	ASTM D5185m		7	5	1
Magnesium	ppm	ASTM D5185m		27	25	17
Calcium	ppm	ASTM D5185m		3122	3398	2410
Phosphorus	ppm	ASTM D5185m		958	939	966
Zinc	ppm	ASTM D5185m		1192	1232	1166
Sulfur	ppm	ASTM D5185m		4837	5943	5788
CONTAMINAN	JTS	method	limit/base	current	historv1	historv2

CONTAININAIN	110	memou	IIIIIII Dase	Current	Thistory i	ilistoi yz
Silicon	ppm	ASTM D5185m	>400	252	△ 137	51
Sodium	ppm	ASTM D5185m		14	8	3
Potassium	ppm	ASTM D5185m	>20	16	9	6
Water	%	ASTM D6304	>0.2	1.28	△ 0.635	△ 0.858
ppm Water	ppm	ASTM D6304	>2000	12800	△ 6350	<u></u> 8580

ppm vvater	ppm	ASTIVI D6304	>2000	12800	6350	8580
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	LAYRD	NORML	▲ MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	• 0.2%	△ 0.2%	△ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG



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