

## **OIL ANALYSIS REPORT**

Sample Rating Trend

VISCOSITY



## KEMP QUARRIES / MUSKOGEE SAND WL042

Component Rear Right Final Drive Fluid

MOBIL MOBILTRANS HD 50 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	e current	history1	history2
A Recommendation	Sample Number		Client Info		PCA0084513	PCA0087108	PCA0070534
The oil change at the time of sampling has been	Sample Date		Client Info		11 Jul 2023	23 May 2023	29 Dec 2022
noted. Resample at the next service interval to	Machine Age	hrs	Client Info		32072	31670	31010
monitor. (Customer Sample Comment: PM-4	Oil Age	hrs	Client Info		32072	1720	1060
changed fluid )	Oil Changed		Client Info		Changed	Not Changd	Not Changd
Wear	Sample Status				ATTENTION		NORMAL
All component wear rates are normal.	WEAR META	IS	method	limit/base	e current	history1	history2
Contamination							
There is no indication of any contamination in the oil.	Iron	ppm	ASTM D5185m		86	163	41
	Chromium	ppm	ASTM D5185m		<1	<1	<1
Fluid Condition The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		5	9	2
	Lead	ppm	ASTM D5185m		1	1	<1
	Copper	ppm	ASTM D5185m		8	7	3
	Tin	ppm	ASTM D5185m	>8	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	e current	history1	history2
	Boron	ppm	ASTM D5185m		0	<1	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		11	<b>1</b> 9	15
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		<b>145</b>	<b>A</b> 266	212
	Calcium	ppm	ASTM D5185m		<b>1327</b>	<b>A</b> 2106	2657
	Phosphorus	ppm	ASTM D5185m		<b>6</b> 29	892	888
	Zinc	ppm	ASTM D5185m		<b>A</b> 776	1068	1065
	Sulfur	ppm	ASTM D5185m		<b>A</b> 3845	▲ 6021	6741
	CONTAMINA	NTS	method	limit/base	e current	history1	history2
	Silicon	ppm	ASTM D5185m	>400	48	92	20
	Sodium	ppm	ASTM D5185m	2400	0	<1	0
	Potassium	ppm	ASTM D5185m	>20	1	2	2
	VISUAL		method	limit/base	e 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	LIGHT	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
	FLUID PROPI	ERTIES	method	limit/base	e current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	195	<b>100</b>	115	160
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