



COMPONENT CONDITION SUMMARY

TM 7 MACHINE LUBE

PERFORMANCE

UNDER

TM 7

Component Lube System

ISO 220 (--- GAL)

Flui



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	ABNORMAL	SEVERE	
Copper	ppm	ASTM D5185m	>20	<u> </u>	<1	0	
Particles >4µm		ASTM D7647	>5000	<u> </u>		92799	
Particles >6µm		ASTM D7647	>1300	<u> </u>		26660	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 24/21/13		• 24/22/17	

Customer Id: KIMMOBTM7 Sample No.: RP0034361 Lab Number: 05937916 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component if applicable.		

HISTORICAL DIAGNOSIS





We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

view report

09 Feb 2023 Diag: Don Baldridge

31 May 2023 Diag: Don Baldridge



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





01 Mar 2021 Diag: Doug Bogart

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.All component wear rates are normal. Free water present. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT





TM 7 MACHINE LUBE Component Lube System Fluid ISO 220 (--- GAL)

DIAGNOSIS

Area TM 7

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

🔺 Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFURI	ATION	method	iinii/base	current	riistory i	nistory2
Sample Number		Client Info		RP0034361	RP0034929	RP05774424
Sample Date		Client Info		28 Aug 2023	31 May 2023	09 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		12	12	13
Iron	ppm	ASTM D5185m	>20	22	3	<1
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	4 0	<1	0
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		3	4	9
Calcium	ppm	ASTM D5185m		90	90	35
Phosphorus	ppm	ASTM D5185m		500	434	230
Zinc	ppm	ASTM D5185m		591	493	283
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	6	6	5
Sodium	ppm	ASTM D5185m		33	32	33
Potassium	ppm	ASTM D5185m	>20	2	2	1
Water	%	ASTM D6304	>0.05	0.007	0.023	0.018
ppm Water	ppm	ASTM D6304	>500	78.9	237.9	180.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	4 90466		92799
Particles >6µm		ASTM D7647	>1300	<u> </u>		26660
Particles >14µm		ASTM D7647	>160	49		• 799
Particles >21µm		ASTM D7647	>40	8		108
Particles >38µm		ASTM D7647	>10	2		2
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 24/21/13		• 24/22/17
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.49	0.48	0.34

Report Id: KIMMOBTM7 [WUSCAR] 05937916 (Generated: 10/03/2023 14:53:38) Rev: 1

0.49

Contact/Location: BRAD SNOW - KIMMOBTM7



(B/HO)

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Pio 0.10

0.00

6000

500

400

300

2000

1000

Water

Mar

OIL ANALYSIS REPORT





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	NONE	LIGHT	NONE
Debris	scalar	*Visual	NONE	LIGHT	A MODER	VLITE
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	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	216	216	217
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						





Contact/Location: BRAD SNOW - KIMMOBTM7