

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC T	BLEMATIC TEST RESULTS						
Sample Status				ABNORMAL	NORMAL	NORMAL	
Copper	ppm	ASTM D5185m	>20	<u> </u>	<1	<1	

Customer Id: SUPSOUOH Sample No.: WC05902919 Lab Number: 05902919 Test Package: MAR 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

24 Apr 2023 Diag: Don Baldridge



24 Apr 2025 Diag. Don Dalunu

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

09 Apr 2023 Diag: Don Baldridge



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT



CATERPILLAR RH BEYMER

Port Genset

KENDALL SUPER-D XA 15W40 (--- GAL)

A 15W40 (GAL	.)	Ap	2023	Apr2023 Jul202	3	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC05902919	WC05829134	WC0581624
Sample Date		Client Info		18 Jul 2023	24 Apr 2023	09 Apr 2023
	hrs	Client Info		15983	14950	14950
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>25	11	12	11
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		22	32	48
	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m		2	2	1
	ppm		>10	- <1	0	0
	ppm	ASTM D5185m		A 29	<1	<1
	• •			-		
	ppm	ASTM D5185m	c<	<1	0	0
- · · ·	ppm	ASTM D5185m		<1	<1	<1
	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	38	78	57
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		46	58	33
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	270	123	201	251
Calcium	ppm	ASTM D5185m	1900	2773	2169	2194
Phosphorus	ppm	ASTM D5185m	1000	1040	992	1015
	ppm	ASTM D5185m	1260	1308	1289	1266
- ···	ppm		3400	4511	4282	4577
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	3
Sodium	ppm	ASTM D5185m		44	2	30
Potassium	ppm	ASTM D5185m	>20	3	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Abs/cm	*ASTM D7624	>20	10.5	10.1	9.7
	Abs/.1mm	*ASTM D7415		19.3	19.8	19.7
FLUID DEGRADAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	17.1	16.6

Sample Rating Trend

WEAR

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

📥 Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

Contamination

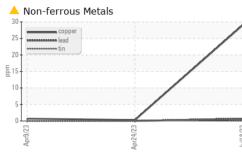
There is no indication of any contamination in the oil.

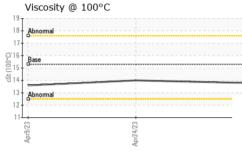
Fluid Condition

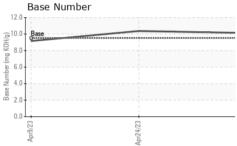
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



OIL ANALYSIS REPORT







		VISUAL		method	limit/base	current	history1	history2
		White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
	/	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	LIGHT	NONE
		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Apr24/23	Jul18/23 -	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Apr2	Jul	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
		Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
		Free Water	scalar	*Visual		NEG	NEG	NEG
		FLUID PROPER	TIES	method	limit/base	current	history1	history2
		Visc @ 100°C	cSt	ASTM D445		13.8	14.0	13.6
		GRAPHS						
		Ferrous Alloys						
/23		iron						
Apr24/23		nickel						
		8 -						
		Md 6-						
		4						
		2						
		3	23		23			
		Apr9/23	Apr24/23		Jul18/23			
		🔺 Non-ferrous Meta						
Apr24/23		³⁰ T			1			
Apr2		25 - copper						
		20		/				
		<u>ة</u> 15-						
		10		/				
		5 -	/					
		0						
		Apr9/23	Apr24/23		Jul18/23 -			
		Apr	Apr2		Jull			
		Viscosity @ 100°C	С			Base Numbe	r	
		19 T			12.0			
		18 Abnormal			10.0	Base		
		17-			(B/HC			*********************
		C 16 Base						
		C 16 Base 15 3 14			0.8 KOH(d) Base Number (mg KOH(d) 888			
		12			4.0			
		13 Abnormal			2.0	-		
		12-						
		114	ł/23 -		0.0	1/23	1/23 +	¢ C
		Apr9/23	Apr24/23		Jul18/23	Apr9/23	Apr24/23	c 6 2
Laboratory Sample No.	: WearCheck USA - : WC05902919		ry, NC 27513 Jul 2023	5	SUPERIOR MARINE WAYS 5852 CO RD			
	Lab Number		Received Diagnose		Jul 2023 Jul 2023			TH POINT, OF
			Diagnosti		an Felton			US 4568
	Unique Number	. 10004270						
CREDITED CONCLOSS ESTING LADORATORY entificate L2367	Test Package	: MAR 2	•				Contact: DARF	
ertificate L2367	Test Package sample report, o		vice at 1-8	00-237-1369		darre	llkerns@superior	

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