

PROBLEM SUMMARY

CATERPILLAR MATTHEW T

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

Sample Rating Trend WEAR

COMPONENT CONDITION SUMMARY

Component



Starboard Main Engine

RECOMMENDATION

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

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL					
Copper	ppm	ASTM D5185m	>300	6 573					

Customer Id: SUPSOUOH Sample No.: WC05902918 Lab Number: 05902918 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 customerservice@wearcheck.com There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id CATERPILLAR MATTHEW T Component

Starboard Main Engine Fluid

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

DIAGNOSIS	SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC05902918		
No corrective action is recommended at this time.	Sample Date		Client Info		18 Jul 2023		
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		8434		
Wear	Oil Age	hrs	Client Info		0		
The copper level is abnormal. In the absence of	Oil Changed		Client Info		N/A		
other significant wear metals, suspect copper due	Sample Status				ABNORMAL		
to sources other than wear (i.e. cooling core). All other component wear rates are normal.	CONTAMINATIO	N	method	limit/base	current	history1	history2
Contamination There is no indication of any contamination in the	Fuel		WC Method	>4.0	<1.0		
pil.	WEAR METALS		method	limit/base	current	history1	history2
Fluid Condition	Iron	ppm	ASTM D5185m	>120	35		
The BN result indicates that there is suitable	Chromium	ppm	ASTM D5185m	>10	<1		
alkalinity remaining in the oil. The condition of the	Nickel	ppm	ASTM D5185m	>5	0		
bil is suitable for further service.	Titanium	ppm	ASTM D5185m		23		
	Silver	ppm	ASTM D5185m	>5	0		
	Aluminum	ppm	ASTM D5185m	>20	2		
	Lead	ppm	ASTM D5185m	>40	1		
	Copper	ppm	ASTM D5185m	>300	<u> </u>		
	Tin	ppm	ASTM D5185m	>10	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	Cadmium	ppm	ASTM D5185m		0		
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	50	59		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		71		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	270	144		
	Calcium	ppm	ASTM D5185m	1900	2395		
	Phosphorus	ppm	ASTM D5185m	1000	1129		
	Zinc	ppm	ASTM D5185m	1260	1315		
	Sulfur	ppm	ASTM D5185m	3400	4827		
	CONTAMINANTS	;	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4		
	Sodium	ppm	ASTM D5185m		3		
	Potassium	ppm	ASTM D5185m	>20	2		
	Glycol	%	*ASTM D2982		NEG		
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844		0.6		
	Nitration	Abs/cm	*ASTM D7624	>20	10.0		
	Sulfation	Abs/.1mm	*ASTM D7415		19.6		
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6		



OIL ANALYSIS REPORT

