

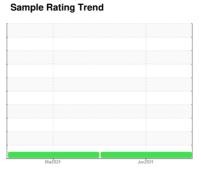
# **OIL ANALYSIS REPORT**



# Machine Id **CATERPILLAR BAILEY MATTHEW**

Port Main Engine

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





## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

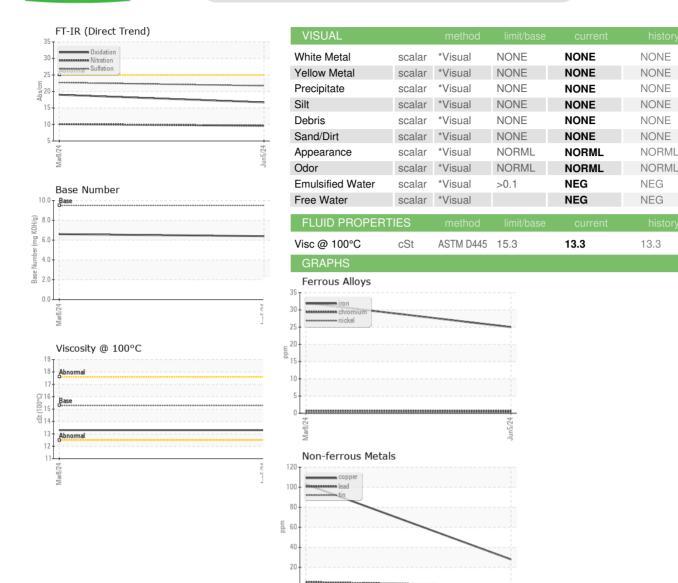
## **Fluid Condition**

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

A 15W4U ( GA	L)		Mar2024	Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HRE0000279	WC0843950	
Sample Date		Client Info		05 Jun 2024	08 Mar 2024	
Machine Age	hrs	Client Info		3156	1835	
Oil Age	hrs	Client Info		500	500	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	
Water		WC Method	>0.1	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	25	32	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m	>5	0	0	
Titanium	ppm	ASTM D5185m		67	60	
Silver	ppm	ASTM D5185m	>5	0	<1	
Aluminum	ppm	ASTM D5185m	>20	2	2	
_ead	ppm	ASTM D5185m	>40	1	5	
Copper	ppm	ASTM D5185m	>300	28	103	
Γin	ppm	ASTM D5185m	>10	<1	2	
Vanadium	ppm	ASTM D5185m		<1	1	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	47	48	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		16	10	
Manganese	ppm	ASTM D5185m		<1	2	
Magnesium	ppm	ASTM D5185m	270	400	447	
Calcium	ppm	ASTM D5185m	1900	1772	1771	
Phosphorus	ppm	ASTM D5185m	1000	877	1006	
Zinc	ppm	ASTM D5185m	1260	1144	1206	
Sulfur	ppm	ASTM D5185m	3400	3787	4768	
		mothod	limit/bass		history1	history2
CONTAMINANTS	5	method	limit/base	current	HISTOLAL	,=
	ppm	ASTM D5185m	>25	5	6	
CONTAMINANTS Silicon Sodium						
Silicon Sodium	ppm	ASTM D5185m	>25	5	6	
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>25	5 3	6 4	
Silicon Sodium Potassium INFRA-RED	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	5 3 4	6 4 4	 
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >20	5 3 4 current	6 4 4 history1	history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >20 limit/base	5 3 4 current	6 4 4 history1	history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>25 >20 limit/base >20	5 3 4 current 0.3 9.6	6 4 4 history1 0.3 10.1	 history2 
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >20 >30	5 3 4 current 0.3 9.6 21.7	6 4 4 history1 0.3 10.1 22.7	 history2 



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : HRE0000279 Lab Number : 06203828 Unique Number : 11071289

Test Package : FLEET

<u>2</u>15 ₹ 14 13

> Received **Tested**

: 07 Jun 2024 : 11 Jun 2024 Diagnosed : 11 Jun 2024 - Wes Davis

(mg K0H/g)

0.0

US 45619 Contact: DARRELL KEARNS darrellkearns@superiormarineinc.com

**SUPERIOR MARINE** 

201 KELLY LANE

CHESAPEAKE, OH

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Viscosity @ 100°C

F:

Base Number

Report Id: SUPCHEOH [WUSCAR] 06203828 (Generated: 06/11/2024 07:40:04) Rev: 1

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