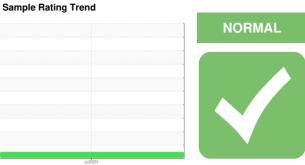


# **OIL ANALYSIS REPORT**





## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the

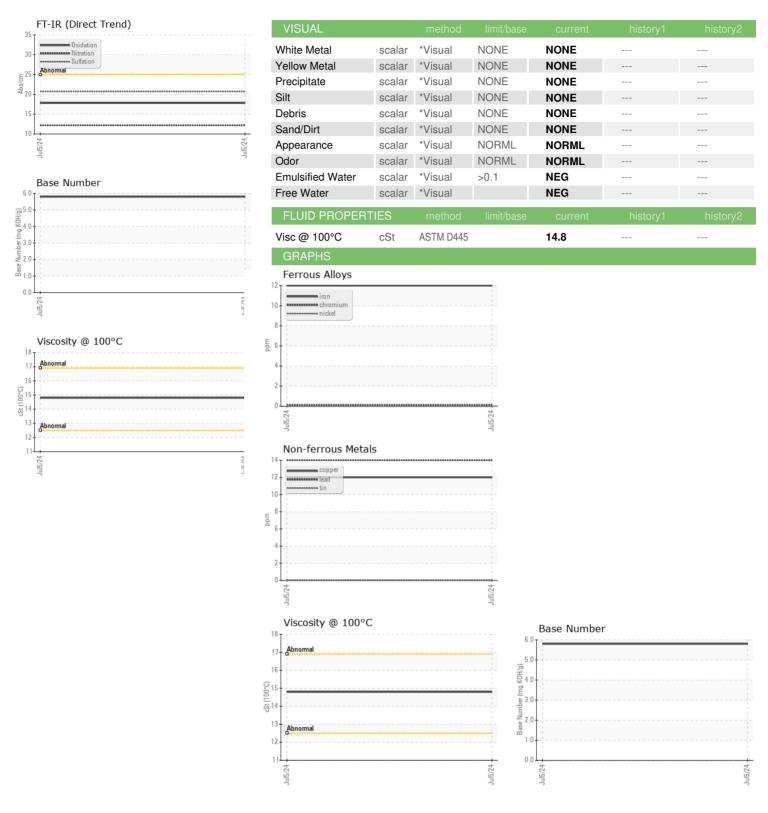
## **Fluid Condition**

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

GAL)				Jul2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843954		
Sample Date		Client Info		05 Jul 2024		
Machine Age	hrs	Client Info		53387		
Oil Age	hrs	Client Info		1000		
Oil Changed	0	Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
- uel		WC Method	>4.0	<1.0		
Nater		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>75	12		
Chromium	ppm	ASTM D5185m	>8	<1		
Nickel	ppm	ASTM D5185m	>2	0		
Γitanium	ppm	ASTM D5185m	>3	2		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>15	1		
_ead	ppm	ASTM D5185m	>18	14		
Copper	ppm	ASTM D5185m	>80	12		
Γin	ppm	ASTM D5185m	>14	0		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		23		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		21		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		33		
Calcium	ppm	ASTM D5185m		2515		
Phosphorus	ppm	ASTM D5185m		444		
Zinc	ppm	ASTM D5185m		532		
Sulfur	ppm	ASTM D5185m		3839		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2		
Sodium	ppm	ASTM D5185m	>75	3		
Potassium	ppm	ASTM D5185m	>20	4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.2		
Nitration	Abs/cm	*ASTM D7624	>20	12.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8		
Base Number (BN)	mg KOH/g	ASTM D2896		5.8		



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

Lab Number : 06234361 Unique Number : 11123195 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0843954

Received : 11 Jul 2024 **Tested** : 12 Jul 2024 Diagnosed

: 12 Jul 2024 - Wes Davis

CHESAPEAKE, OH US 45619 Contact: DARRELL KEARNS

darrellkearns@superiormarineinc.com

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

Report Id: SUPCHEOH [WUSCAR] 06234361 (Generated: 07/12/2024 17:44:43) Rev: 1

Contact/Location: DARRELL KEARNS - SUPCHEOH

T:

F:

**SUPERIOR MARINE** 

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