

## **OIL ANALYSIS REPORT**

Potassium

ppm

ASTM D5185m >20

### Area **CHARLIE M EVERHART** [CHARLIE M EVERHART] 001 534782-1

**Port Main Engine** 

Flui CHEVRON DELO 400 LE 15W40 (30 GAL)

#### DIAGNOSIS

#### Recommendation

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

#### A Wear

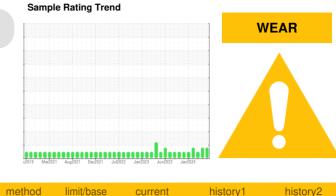
The copper level is abnormal. All other component wear rates are normal.

#### 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.



SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MW0062865	MW0062856	MW0064468
Sample Date		Client Info		01 May 2024	18 Apr 2024	01 Mar 2024
Machine Age	hrs	Client Info		4642	3924	3178
Oil Age	hrs	Client Info		178	971	165
Oil Changed		Client Info		Not Changd	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	5	19	8
Chromium	ppm	ASTM D5185m	>8	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>3	<1	1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	3	6	3
Lead	ppm	ASTM D5185m	>18	3	8	3
Copper	ppm	ASTM D5185m	>80	<u> </u>	<u> </u>	30
Tin	ppm	ASTM D5185m	>14	<1	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		381	659	388
Barium	ppm	ASTM D5185m		1	2	0
Molybdenum	ppm	ASTM D5185m		119	194	122
Manganese	ppm	ASTM D5185m		<1	1	0
Magnesium	ppm	ASTM D5185m		627	934	617
Calcium	ppm	ASTM D5185m		1451	2330	1522
Phosphorus	ppm	ASTM D5185m	1200	736	1084	807
Zinc	ppm	ASTM D5185m	1300	812	1294	878
Sulfur	ppm	ASTM D5185m	3200	2745	4124	2779
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	5	11	7
Sodium	ppm	ASTM D5185m	>75	<1	2	<1
				-		

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.6	7.3	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	23.7	22.8
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	17.4	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	9.69	9.37	10.08

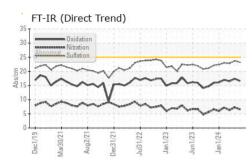
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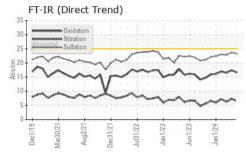
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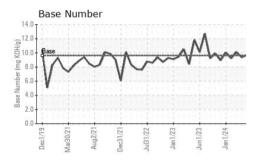
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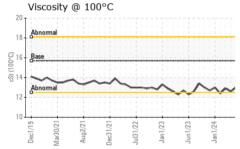


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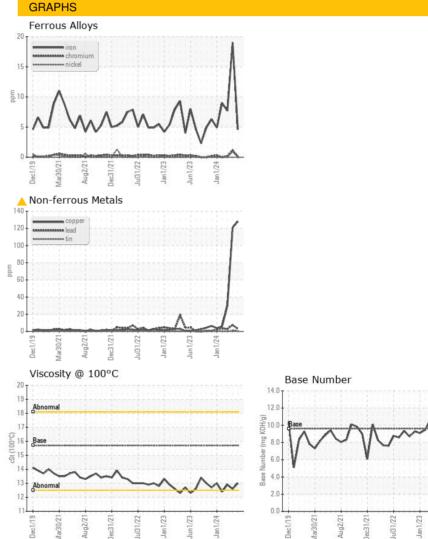


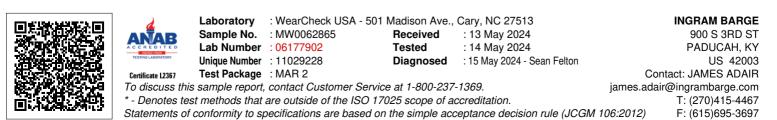






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.7	13.0	12.6	12.9





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Contact/Location: JAMES ADAIR - INGPAD

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