

**OIL ANALYSIS REPORT** 

CAL010

Component **Diesel Engine** 

**MOBIL MOBILGARD 412 (6000 LTR)** 

# Sample Rating Trend



# DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

## Wear

Metal levels are typical for a components first oil change.

## 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.

				May2022		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0052803		
Sample Date		Client Info		16 May 2022		
Machine Age	hrs	Client Info		12903		
Oil Age	hrs	Client Info		12903		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0		
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	5		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>20	2		
Lead	ppm	ASTM D5185(m)	>20	<1		
Copper	ppm	ASTM D5185(m)	>15	4		
Tin	ppm	ASTM D5185(m)	>10	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	1		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	0	<1		
Manganese	ppm	ASTM D5185(m)	0	<1		
Magnesium	ppm	ASTM D5185(m)	18	28		
Calcium	ppm	ASTM D5185(m)	6350	6291		
Phosphorus	ppm	ASTM D5185(m)	200	207		
Zinc	ppm	ASTM D5185(m)	380	361		
Sulfur	ppm	ASTM D5185(m)	6950	4858		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	7		
Sodium	ppm	ASTM D5185(m)		4		
Potassium	ppm	ASTM D5185(m)	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>1.5	0.1		
Nitration	Abs/cm	ASTM D7624*	>20	8.5		
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.7		



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number** 

: 02508017 : 5448987

: PC0052803 Received

: 31 Aug 2022 Diagnosed Diagnostician Test Package : MOB 2 ( Additional Tests: KV40, VI )

: 31 Aug 2022 : Wes Davis

1315 Topsail Rd, P.O. Box 8190 St. John's, NL **CA A1B 3N4** 

Contact: Calvert Engine Control Room calvertengine@oceanchoice.com

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Calvert Engine Control Room - MVCALVERT

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