



# RECOMMENDATION

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

PROBLEMATIC TEST RESULTS										
Sample Status			ABNORMAL	NORMAL	MARGINAL					
Lead	ppm	ASTM D5185m	>30	<u> </u>	28	<b>A</b> 31				

Customer Id: EOGMID Sample No.: TO60001454 Lab Number: 05980597 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

## **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

# HISTORICAL DIAGNOSIS

### 06 Sep 2023 Diag: Jonathan Hester



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

#### 14 Aug 2023 Diag: Doug Bogart

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



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#### 14 Jul 2023 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor.Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

Sample Rating Trend

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GOLDEN BEAR **MRC-271** Component

**Natural Gas Engine** 

LO-ASH ENGINE OIL SAE 40 (--- GAL)

	IN THOMAS					
SAMPLE INFORM	<b>NATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		TO60001454	TO60001463	TO60001183
Sample Date		Client Info		30 Sep 2023	06 Sep 2023	14 Aug 2023
Machine Age	hrs	Client Info		11540	10925	10440
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	7	8	8
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	<1	1
Lead	ppm	ASTM D5185m	>30	<b>A</b> 31	28	<b>A</b> 31
Copper	ppm	ASTM D5185m	>35	10	11	12
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	37	66	67	70
Barium	ppm	ASTM D5185m	12	0	0	2
Molybdenum	ppm	ASTM D5185m	200	<1	<1	1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	5	0	16	12
Calcium	ppm	ASTM D5185m	1600	1633	1521	1606
Phosphorus	ppm	ASTM D5185m	300	306	298	305
Zinc	ppm	ASTM D5185m	400	440	365	399
Sulfur	ppm	ASTM D5185m	2600	2113	2134	2135
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	2	2	2
Sodium	ppm	ASTM D5185m		6	9	4
Potassium	ppm	ASTM D5185m	>20	3	3	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.4	11.4	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	24.1	20.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.0	25.4	23.2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.59	1.55	1.78
Base Number (BN)	mg KOH/g	ASTM D2896	3.0	4.17	3.09	4.31

# DIAGNOSIS

Recommendation

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

Fluid

# A Wear

Bearing and/or bushing wear is indicated.

## 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



# **OIL ANALYSIS REPORT**







Viscosity @ 100°C

CC/7100

Viscosity @ 40°C

CC/7100

18

17

16

cSt (100°C)

13 Abnorma

12

170

160

150

130

120 Abnorma

cSt (40°C 14

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VISUAL method limit/base history1 history2 current NONE White Metal \*Visual NONE NONE NONE scalar NONE NONE NONE NONE Yellow Metal scalar \*Visual Precipitate scalar \*Visua NONE NONE NONE NONE Silt scalar \*Visual NONE NONE NONE NONE NONE NONE Debris \*Visual NONE NONE scalar NONE Sand/Dirt scalar \*Visual NONE NONE NONE NORML Appearance NORML NORML NORML scalar \*Visua NORML Odor scalar \*Visual NORML NORML NORML \*Visual **Emulsified Water** scalar >0.1 NEG NEG NEG Free Water scalar \*Visual NEG NEG NEG FLUID PROPERTIES method limit/base current history history Visc @ 40°C cSt ASTM D445 138 158 157 157 Visc @ 100°C cSt ASTM D445 14.4 15.0 14.8 14.9 Viscosity Index (VI) Scale ASTM D2270 102 94 92 93





Apr11/23

5C/LCue

Contact/Location: HERMAN GARZA - EOGMID

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