

# **OIL ANALYSIS REPORT**



#### Machine Id MRC-293 Component Natural Gas Engine Fluid LO-ASH ENGINE OIL SAE 40 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

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

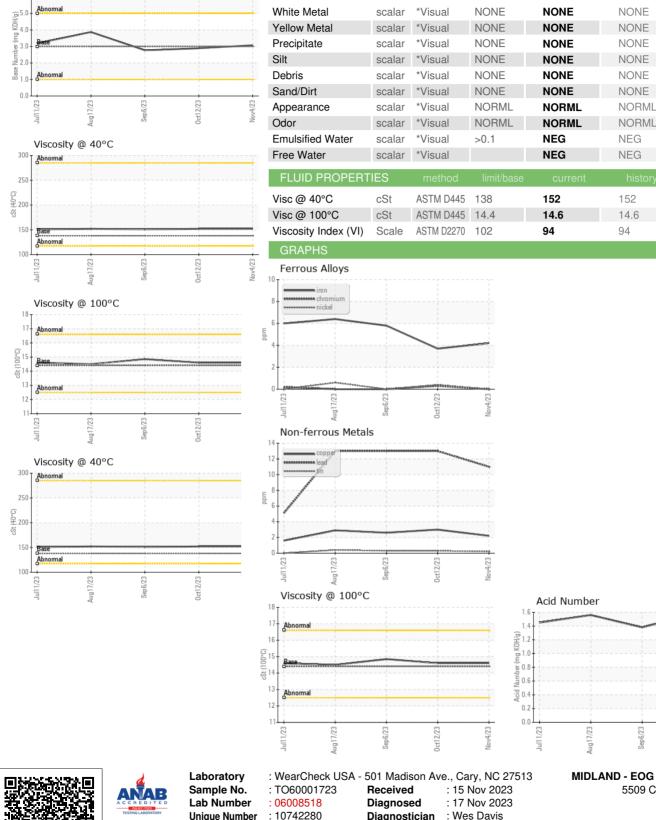
		Jul2023	Aug2023	Sep2023 Oct2023	Nov2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO60001723	TO60001661	TO60001473
Sample Date		Client Info		04 Nov 2023	12 Oct 2023	06 Sep 2023
Machine Age	hrs	Client Info		5803	5809	5810
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	4	4	6
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	2	<1
Lead	ppm	ASTM D5185m	>30	11	13	13
Copper	ppm	ASTM D5185m	>35	2	3	3
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	37	55	63	65
Barium	ppm	ASTM D5185m	12	0	10	0
Molybdenum	ppm	ASTM D5185m	200	<1	2	2
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	5	17	17	15
Calcium	ppm	ASTM D5185m	1600	1286	1361	1514
Phosphorus	ppm	ASTM D5185m	300	196	307	284
Zinc	ppm	ASTM D5185m	400	328	357	364
Sulfur	ppm	ASTM D5185m	2600	1612	2114	2026
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	1	2	2
Sodium	ppm	ASTM D5185m		5	<1	5
Potassium	ppm	ASTM D5185m	>20	<1	3	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.3	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.2	22.5
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	19.2	21.4
Acid Number (AN)	mg KOH/g	ASTM D8045		1.35	1.57	1.38
Base Number (BN)	mg KOH/g	ASTM D2896	3.0	3.07	2.89	2.77



Base Number

6.0

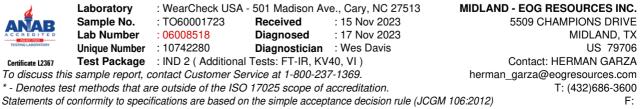
# **OIL ANALYSIS REPORT**



Test Package : IND 2 (Additional Tests: FT-IR, KV40, VI)

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.



Sep6/23

Certificate L2367

Contact/Location: HERMAN GARZA - EOGMID

v4/23

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

151

97

14.85