

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



HANM02BE (S/N 3RC00182) Component

Biogas Engine

CHEVRON HDAX LFG SAE 40 (--- GAL)





Sample Date Client Info 10 Aug 2023 02 Aug 2023 27 Jul 2023 Machine Age hrs Client Info 66922 66728 66586 Oil Age hrs Client Info 641 447 305 Oil Changed Client Info Not Changd Not Changd No RMAL NORMAL CONTAMINATION method imit/base current history1 history2 Fuel WC Method >4.0 <1.0 <1.0 <1.0 Glycol WC Method >4.0 <1.0 <1.0 <1.0 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185n >15 5 3 4 Chromium ppm ASTM D5185n >2 0 0 0 Titanium ppm ASTM D5185n >5 0 0 0 Silver ppm ASTM D5185n >14 2 2 1	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
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Oil Age Inrs Client Info 641 447 305 Oil Changed Client Info Not Changd Not Changd	Sample Date		Client Info		10 Aug 2023	02 Aug 2023	27 Jul 2023
Oil Changed Sample Status Client Info Not Changd NORMAL Not Changd NORMAL Not Changd NORMAL Not Changd NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >4.0 <1.0 <1.0 <1.0 <1.0 Glycol WC Method >4.0 <1.0 <1.0 <1.0 <1.0 WCAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >15 5 3 4 Okckel ppm ASTM D5185m >5 0 0 0 Silver ppm ASTM D5185m >5 0 0 0 Copper ppm ASTM D5185m >14 2 2 2 Vanadium ppm ASTM D5185m 14 2 2 2 Barium ppm ASTM D5185m 1 2 2 2 Barium ppm ASTM D5185m<	Machine Age	hrs	Client Info		66922	66728	66586
Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >4.0 <1.0	Oil Age	hrs	Client Info		641	447	305
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >4.0 <1.0	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
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CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >181 150 126 118 Sodium ppm ASTM D5185m >181 150 126 118 Sodium ppm ASTM D5185m >20 <1	Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	270	0 <1 <1 14 2003	0 2 <1 16 1880	0 2 <1 6 1952
Silicon ppm ASTM D5185m >181 150 126 118 Sodium ppm ASTM D5185m 3 3 3 3 Potassium ppm ASTM D5185m >20 <1	Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1 14 2003 298	0 2 <1 16 1880 278	0 2 <1 6 1952 297
Sodium ppm ASTM D5185m 3	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1 14 2003 298 370	0 2 <1 16 1880 278 358	0 2 <1 6 1952 297 360
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Sulfation Abs/.1mm *ASTM D7415 >30 19.7 19.3 18.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.7 14.1 12.0 Acid Number (AN) mg KOH/g ASTM D8045 1.8 1.60 1.31 1.07	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	310 limit/base >181 >20	0 <1 <1 14 2003 298 370 2637 <u>current</u> 150 3 <1	0 2 <1 16 1880 278 358 2437 history1 126 3 1	0 2 <1 6 1952 297 360 2487 history2 118 3 0
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Oxidation Abs/.1mm *ASTM D7414 >25 15.7 14.1 12.0 Acid Number (AN) mg KOH/g ASTM D8045 1.8 1.60 1.31 1.07	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm	ASTM D5185m ASTM D5185m	310 limit/base >181 >20 limit/base	0 <1 <1 14 2003 298 370 2637 current 150 3 <1 50 3 <1 0	0 2 <1 16 1880 278 358 2437 history1 126 3 1 126 3 1 history1 0	0 2 <1 6 1952 297 360 2487 history2 118 3 0 history2 0
Acid Number (AN) mg KOH/g ASTM D8045 1.8 1.60 1.31 1.07	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	310 limit/base >181 >20 limit/base >20	0 <1 <1 14 2003 298 370 2637 current 150 3 <1 150 3 <1 0 0 6.8	0 2 <1 16 1880 278 358 2437 history1 126 3 1 126 3 1 history1 0 6.6	0 2 <1 6 1952 297 360 2487 history2 118 3 0 history2 0 6.3
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	310 limit/base >181 >20 limit/base >20 >30	0 <1 <1 14 2003 298 370 2637 <i>current</i> 150 3 <1 150 3 <1 0 6.8 19.7	0 2 <1 16 1880 278 358 2437 history1 126 3 1 126 3 1 history1 0 6.6 19.3	0 2 <1 6 1952 297 360 2487 history2 118 3 0 history2 0 6.3 18.0
Base Number (BN) mg KOH/g ASTM D2896 6.0 4.69 3.73 4.54	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7624	310 limit/base >181 >20 limit/base >20 >30 limit/base	0 <1 <1 14 2003 298 370 2637 <i>current</i> 150 3 <1 <i>current</i> 0 6.8 19.7 <i>current</i>	0 2 <1 16 1880 278 358 2437 history1 126 3 1 1 history1 0 6.6 19.3 history1	0 2 3 1952 297 360 2487 history2 118 3 0 history2 0 6.3 18.0 history2
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA Oxidation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	310 limit/base >181 >20 limit/base >20 >30 limit/base >25	0 <1 <1 :4 :2003 :298 :370 :2637 : : : : : : : : : : : : : : : : : : :	0 2 <1 16 1880 278 358 2437 history1 126 3 1 126 3 1 1 history1 0 6.6 19.3 history1 14.1	0 2 3 1952 297 360 2487 history2 118 3 0 history2 0 6.3 18.0 history2

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

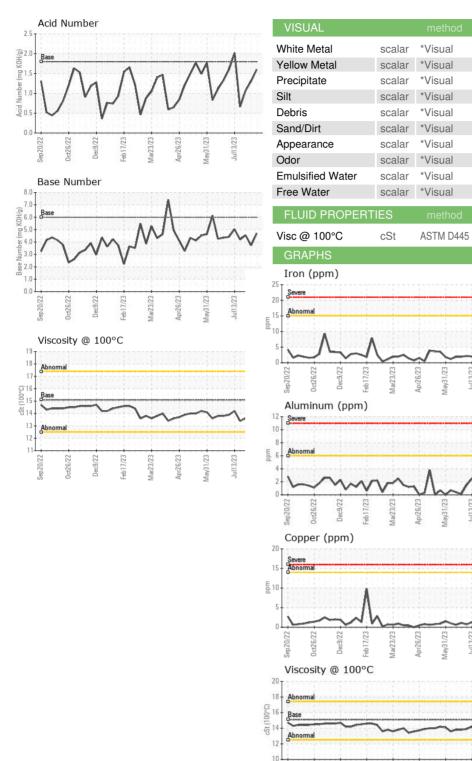
There is no indication of any contamination in the oil.

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.



OIL ANALYSIS REPORT



Dr+26/22

: WC0802687

: 05923537

: 10603484

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

: MOB 2

CC/brel Feb 17/73 Aar73/73

Sen 20/77

Laboratory

Sample No.

Lab Number

Unique Number

Test Package

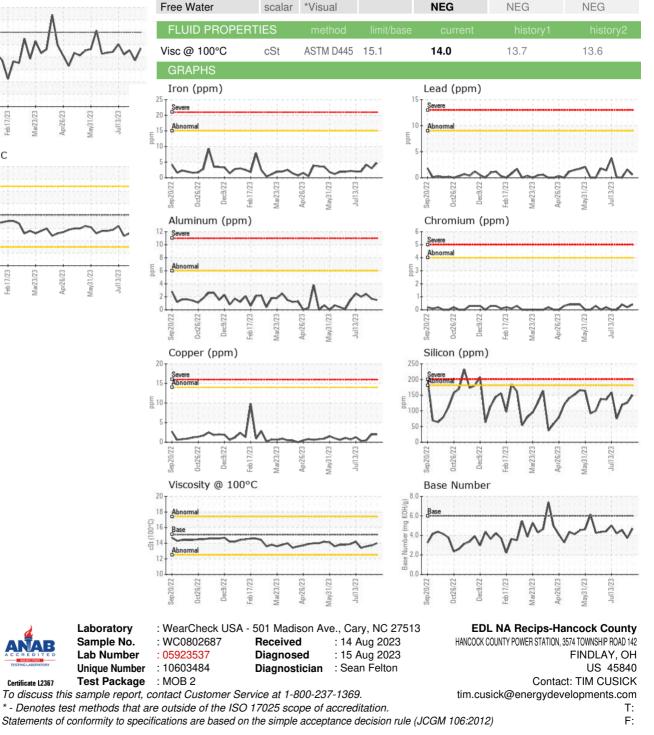
May31/23

Apr26/23

Received

Diagnosed

Diagnostician



NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NONE

NONE

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NONE

NONE

NORML

NORML

>0.1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

Certificate L2367

Submitted By: TIM CUSICK

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