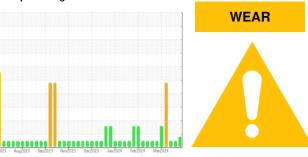


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id

SJNM01BE
Component
Biogas Engine
Fluid

CHEVRON HDAX 9500 GAS ENGINE OIL 40 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

The tin level is abnormal.

Contamination

There is no indication of any contamination in the

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.

SAMPLE INFORM	MOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0865745	WC0865740	WC0865719
·		Client Info				
Sample Date	hrs	Client Info		18 Apr 2024 71822	11 Apr 2024 71672	04 Apr 2024 71518
Machine Age		Client Info		_	320	166
Oil Age	hrs			470		
Oil Changed		Client Info		Not Changd ABNORMAL	Not Changd NORMAL	Not Chango NORMAL
Sample Status		and the sale	Line it fine a second	-	-	
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>14	2	2	0
Chromium	ppm	ASTM D5185m	>3	<1	0	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	2	2	1
Lead	ppm	ASTM D5185m	>8	2	<1	<1
Copper	ppm	ASTM D5185m	>5	1	<1	0
Tin	ppm	ASTM D5185m	>3	<u> 4</u>	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		7	1	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		7	5	4
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm			_ ·		
Magnoolani		ASTM 1)5185m		36	22	:31
Calcium	• • • • • • • • • • • • • • • • • • • •	ASTM D5185m		36 2004	1902	31 1897
	ppm	ASTM D5185m		2004	1902	1897
Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m		2004 307	1902 258	1897 282
Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		2004 307 370	1902 258 299	1897 282 350
Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/lagge	2004 307 370 2457	1902 258 299 2025	1897 282 350 1717
Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	2004 307 370 2457 current	1902 258 299 2025 history1	1897 282 350 1717 history2
Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>180	2004 307 370 2457 current	1902 258 299 2025 history1	1897 282 350 1717 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>180 >20	2004 307 370 2457 current 160 3	1902 258 299 2025 history1 119 2	1897 282 350 1717 history2 77
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>180 >20 >20	2004 307 370 2457 current 160 3 <1	1902 258 299 2025 history1 119 2	1897 282 350 1717 history2 77 1
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>180 >20	2004 307 370 2457 current 160 3 <1	1902 258 299 2025 history1 119 2	1897 282 350 1717 history2 77 1 0
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m	>180 >20 >20	2004 307 370 2457 current 160 3 <1 current	1902 258 299 2025 history1 119 2 0 history1 0.1	1897 282 350 1717 history2 77 1 0 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>180 >20 >20	2004 307 370 2457 current 160 3 <1	1902 258 299 2025 history1 119 2 0	1897 282 350 1717 history2 77 1 0
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m	>180 >20 >20	2004 307 370 2457 current 160 3 <1 current	1902 258 299 2025 history1 119 2 0 history1 0.1	1897 282 350 1717 history2 77 1 0 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm Abs/.tmm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m *ASTM D5185m	>180 >20 >20	2004 307 370 2457 current 160 3 <1 current 0.1 7.4	1902 258 299 2025 history1 119 2 0 history1 0.1 7.2	1897 282 350 1717 history2 77 1 0 history2 0 6.4 18.9
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm Abs/.tmm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	>180 >20 >20 limit/base	2004 307 370 2457 current 160 3 <1 current 0.1 7.4 21.6	1902 258 299 2025 history1 119 2 0 history1 0.1 7.2 20.3	1897 282 350 1717 history2 77 1 0 history2 0 6.4
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm Abs/.tmm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7624 *ASTM D7415 Method *ASTM D7414	>180 >20 >20 limit/base	2004 307 370 2457 current 160 3 <1 current 0.1 7.4 21.6 current	1902 258 299 2025 history1 119 2 0 history1 0.1 7.2 20.3 history1	1897 282 350 1717 history2 77 1 0 history2 0 6.4 18.9



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

Lab Number : 06157083 Unique Number : 10992506

: WC0865745 Test Package : MOB 2

Received : 22 Apr 2024

Tested : 23 Apr 2024 Diagnosed : 25 Apr 2024 - Jonathan Hester

South Jordan Powerstation, 10473 S. Bacchus Hwy. South Jordan, UT US 84095

Contact: Aaron Klein aaron.klein@edlenergy.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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