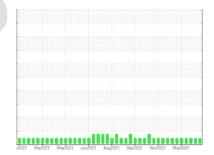


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id

CAPTIS ENERGY ENG 3 (S/N 1251399)

Natural Gas Engine

MAHLER Q8 Mahler G8 SAE 40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

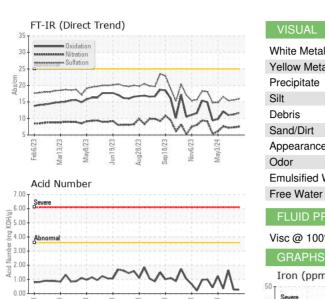
Fluid Condition

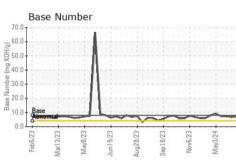
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

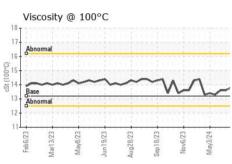
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0944696	WC0944698	WC0944701
Sample Date		Client Info		11 Jun 2024	03 Jun 2024	28 May 2024
Machine Age	hrs	Client Info		25380	25189	25050
Oil Age	hrs	Client Info		1088	897	758
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	2	3
Chromium	ppm	ASTM D5185m	>5	0	0	<1
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	>15	2	2	2
Lead	ppm	ASTM D5185m	>20	<1	0	<1
Copper	ppm	ASTM D5185m	>15	<1	0	<1
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method				history2
7.5520		motriou	mine bacc	Carrent	Thistory	Thotol y Z
Boron	ppm	ASTM D5185m	mma bacco	0	0	<1
	ppm					
Boron		ASTM D5185m	mm, bass	0	0	<1
Boron Barium	ppm	ASTM D5185m ASTM D5185m		0 0	0	<1 1
Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 0 2	0 0 2	<1 1 2
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 2 <1	0 0 2 <1	<1 1 2 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 2 <1 14	0 0 2 <1 5	<1 1 2 <1 13
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 2 <1 14 2493	0 0 2 <1 5 2482	<1 1 2 <1 13 2181
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 2 <1 14 2493 516	0 0 2 <1 5 2482 519	<1 1 2 <1 13 2181 494
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 2 <1 14 2493 516 599	0 0 2 <1 5 2482 519 591	<1 1 2 <1 13 2181 494 543
Boron 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 ASTM D5185m ASTM D5185m	limit/base	0 0 2 <1 14 2493 516 599 3052	0 0 2 <1 5 2482 519 591 2899	<1 1 2 <1 13 2181 494 543 2514
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 2 <1 14 2493 516 599 3052 current	0 0 2 <1 5 2482 519 591 2899 history1	<1 1 2 <1 13 2181 494 543 2514 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >200	0 0 2 <1 14 2493 516 599 3052 current	0 0 2 <1 5 2482 519 591 2899 history1	<1 1 2 <1 13 2181 494 543 2514 history2 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >200 >20	0 0 2 <1 14 2493 516 599 3052 current 6 <1	0 0 2 <1 5 2482 519 591 2899 history1 2	<1 1 2 <1 13 2181 494 543 2514 history2 2 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >200 >20 >20 >20	0 0 2 <1 14 2493 516 599 3052 current 6 <1	0 0 2 <1 5 2482 519 591 2899 history1 2	<1 1 2 <1 13 2181 494 543 2514 history2 2 <1 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >200 >20 >20 simit/base	0 0 2 <1 14 2493 516 599 3052 current 6 <1 1	0 0 2 <1 5 2482 519 591 2899 history1 2 1 0 history1	<1 1 2 <1 13 2181 494 543 2514 history2 2 <1 2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >200 >20 >20 limit/base >2	0 0 2 <1 14 2493 516 599 3052 current 6 <1 1 current	0 0 2 <1 5 2482 519 591 2899 history1 2 1 0 history1 0	<1 1 2 <1 13 2181 494 543 2514 history2 2 <1 2 history2 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm	ASTM D5185m method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >200 >20 >20 limit/base >2 >2 >20	0 0 2 <1 14 2493 516 599 3052 current 6 <1 1 current 0 7.5	0 0 2 <1 5 2482 519 591 2899 history1 2 1 0 history1 0 7.3	<1 1 2 <1 13 2181 494 543 2514 history2 2 <1 2 history2 0 7.2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m Method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	limit/base >200 >20 >20 limit/base >2 >2 >20 >20 >20	0 0 2 <1 14 2493 516 599 3052 current 6 <1 1 current 0 7.5 15.9	0 0 2 <1 5 2482 519 591 2899 history1 2 1 0 history1 0 7.3 15.6	<1 1 2 <1 13 2181 494 543 2514 history2 2 <1 2 history2 0 7.2 15.4
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm	ASTM D5185m method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7844 *ASTM D7844 *ASTM D7844 *ASTM D7844	limit/base >200 >20 >20 >20 imit/base >2 >20 limit/base	0 0 2 <1 14 2493 516 599 3052 current 6 <1 1 current 0 7.5 15.9 current	0 0 2 <1 5 2482 519 591 2899 history1 2 1 0 history1 0 7.3 15.6 history1	<1 1 2 <1 13 2181 494 543 2514 history2 2 <1 2 history2 0 7.2 15.4 history2



OIL ANALYSIS REPORT



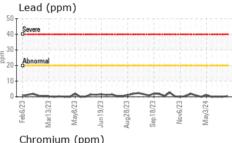


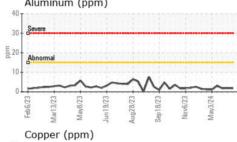


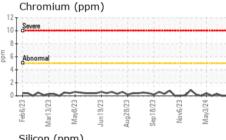
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPER	ITIES	method				history2
Visc @ 100°C	cSt	ASTM D445	13.2	13.8	13.6	13.6

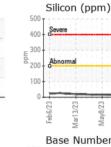
	m)					
е	11 11		11 1		10.1	11
rmal						
		r	~	1	٨	1
73 - 62/	723	123	723	73	733	7 7
Mar13	May8	Jun 19	Aug28	Sep 18	Nov6	May3/24
	re	omal	ormal	ormal	ore Ormal	ore Ormal

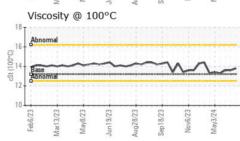


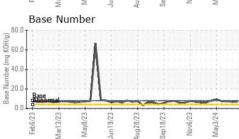
















Certificate 12367

Laboratory Sample No.

: WC0944696 Lab Number : 06207992 Unique Number : 11075453

Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 12 Jun 2024 **Tested** Diagnosed

: 14 Jun 2024 : 14 Jun 2024 - Wes Davis

CUBE DISTRICT ENERGY 1000 WINDWARD CONCOURSE SUITE 150 ALPHARETTA, GA

US 30005 Contact: ED LEWIS

ed.lewis@cubedistrictenergy.com T:

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.

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

F: