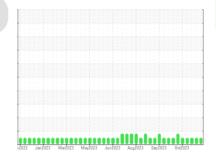


OIL ANALYSIS REPORT

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

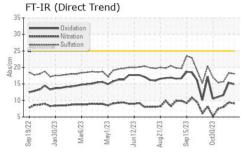
Fluid Condition

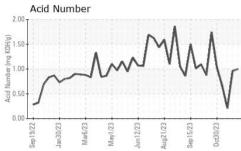
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

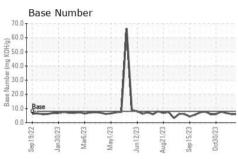
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0914335	WC0914344	WC0835563
Sample Date		Client Info		15 Apr 2024	08 Apr 2024	13 Nov 2023
Machine Age	hrs	Client Info		24029	23864	20832
Oil Age	hrs	Client Info		3801	3636	619
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N .	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	5	1
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	3	2
Lead	ppm	ASTM D5185m	>30	<1	2	<1
Copper	ppm	ASTM D5185m	>35	<1	1	<1
Tin	ppm	ASTM D5185m	>4	<1	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		<1	1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1	10	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	4	2
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		13	11	0
Calcium	ppm	ASTM D5185m		2410	2541	2164
Phosphorus	ppm	ASTM D5185m		437	473	434
Zinc	ppm	ASTM D5185m		499	511	492
Sulfur	ppm	ASTM D5185m		2608	2585	2298
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	5	5	4
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	2	1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.1	9.4	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	18.3	15.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	15.4	11.6
	mg KOH/g					0.21
Acid Number (AN)	IIIg NOT/u	ASTM D8045		1.00	0.96	0.21
Acid Number (AN) Base Number (BN)	mg KOH/g	ASTM D8045 ASTM D2896	8.0	6.06	5.98	6.69

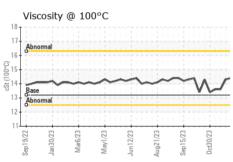


OIL ANALYSIS REPORT





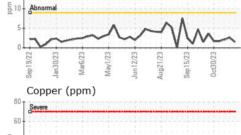


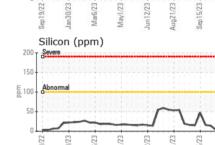


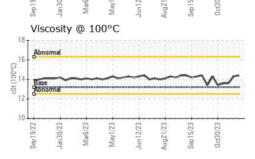
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

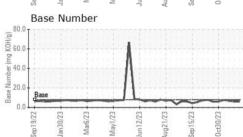
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	13.2	14.4	143	13.6	

Iron (ppm)	Lead (ppm)
Severe	Severe
80 4	40-111111111111111111111111111111111111
Abnormal	E 30 - Abnormal
20 -	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	- 0
Sep 19/22 Jan 30/23 Mar6/23 May1/23 Aug 21/23 Sep 15/23	Sep 19/22 Jan 30/23 Mar6/23 May 1/23
Sep 19, Jan 30, May 1, Jun 12, Aug 2 1, Sep 15,	Sep19, Jan30, Mar6, Jun12,
Aluminum (ppm)	Chromium (ppm)
	Spyere
5 - Severe	6
10 - Abnormal	Abnormal













Certificate 12367

Laboratory Sample No. Lab Number : 06155251

: WC0914335 Unique Number : 10990674 Test Package : MOB 2

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

: 19 Apr 2024 : 22 Apr 2024 Diagnosed : 22 Apr 2024 - Wes Davis

CUBE DISTRICT ENERGY 1000 WINDWARD CONCOURSE SUITE 150

ALPHARETTA, GA US 30005

Contact: ED LEWIS ed.lewis@cubedistrictenergy.com

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)

T:

F: