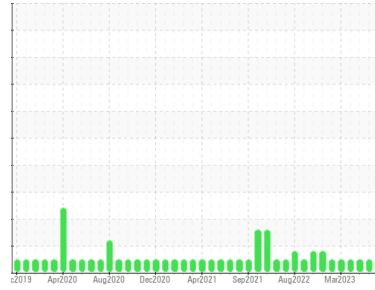




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
MAN G3685
 Component
Natural Gas Engine
 Fluid
SHELL MYSELLA 40 (70 LTR)

DIAGNOSIS

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 acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0724346	WC0724347	WC0724348
Sample Date	Client Info			25 Jan 2024	06 Jul 2023	15 Jun 2023
Machine Age	hrs	Client Info		79412	74722	74218
Oil Age	hrs	Client Info		1000	1500	1000
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION		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	4	15	11
Chromium	ppm	ASTM D5185m	>10	7	14	12
Nickel	ppm	ASTM D5185m	>5	2	4	4
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	3
Lead	ppm	ASTM D5185m	>20	0	4	5
Copper	ppm	ASTM D5185m	>15	<1	3	3
Tin	ppm	ASTM D5185m	>10	0	0	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		4	2	2
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		7	8	5
Calcium	ppm	ASTM D5185m	0	1500	1818	1710
Phosphorus	ppm	ASTM D5185m	200	312	341	311
Zinc	ppm	ASTM D5185m	0	388	436	388
Sulfur	ppm	ASTM D5185m		2801	3170	3027

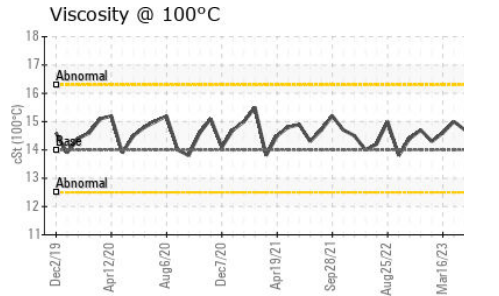
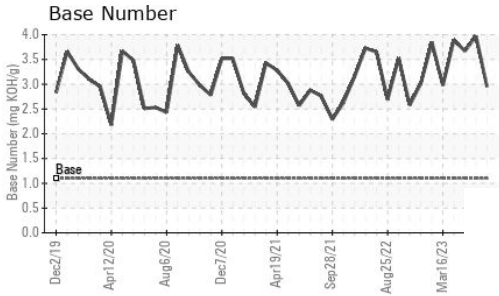
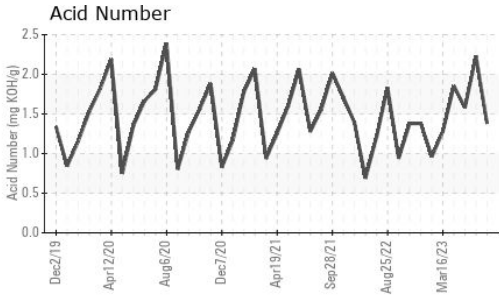
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	3	3
Sodium	ppm	ASTM D5185m		0	1	1
Potassium	ppm	ASTM D5185m	>20	2	<1	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>1.5	0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.7	8.7	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	21.2	20.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	20.5	18.4
Acid Number (AN)	mg KOH/g	ASTM D8045		1.38	2.23	1.58
Base Number (BN)	mg KOH/g	ASTM D2896	1.1	2.95	3.97	3.67



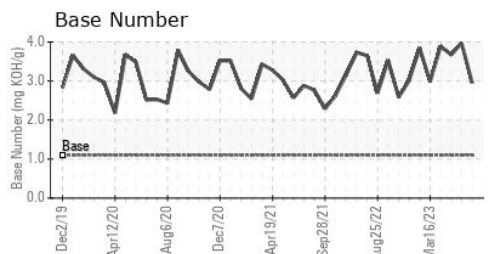
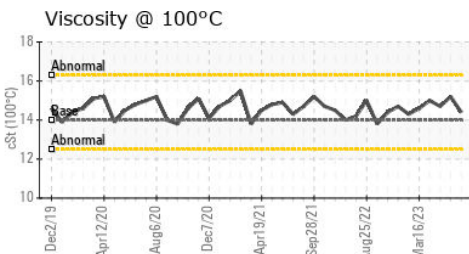
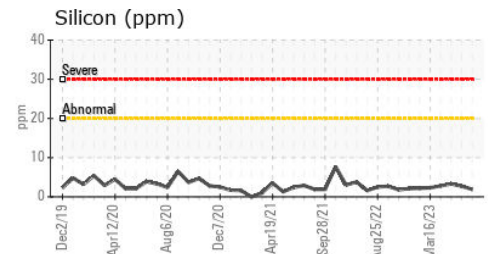
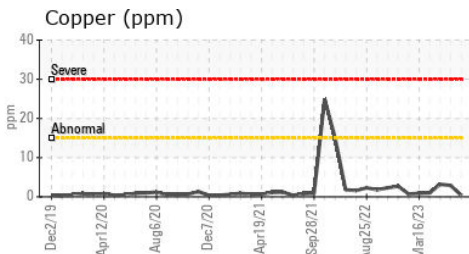
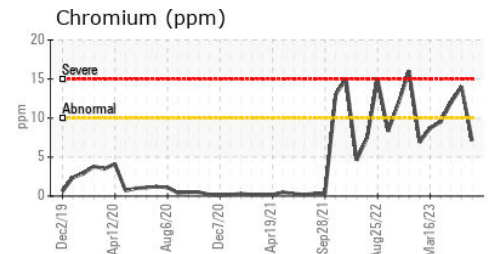
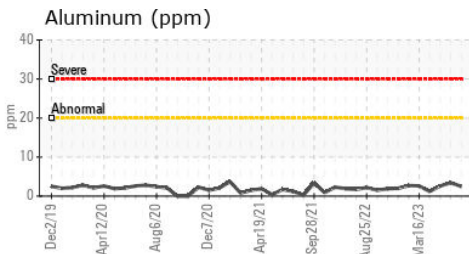
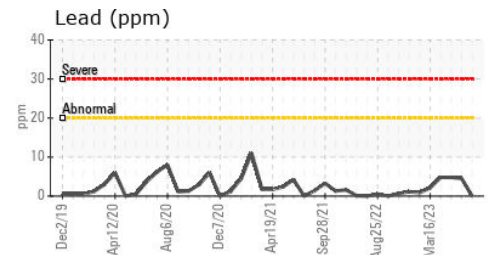
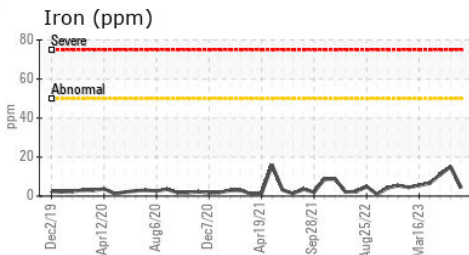
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.0	14.4	15.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0724346 **Recieved** : 30 Jan 2024
Lab Number : 06074985 **Diagnosed** : 01 Feb 2024
Unique Number : 10857076 **Diagnostician** : Sean Felton
Test Package : MOB 2

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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)