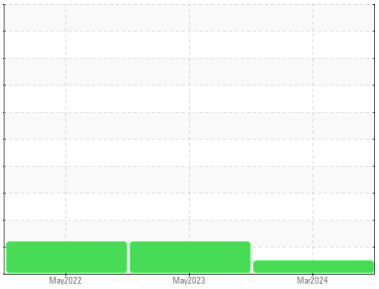
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
W/C DES PGN-27-ENGINE 7-FLEET#774120 115325
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 5W30 (--- GAL)

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 condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0921731**	WC0799833	WC0651407
Sample Date		Client Info		**31 Mar 2024**	14 May 2023	29 May 2022
Machine Age	mls	Client Info		**0**	0	0
Oil Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	**3**	7	3
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	0
Nickel	ppm	ASTM D5185m	>4	**<1**	<1	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m	>3	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>20	**2**	3	2
Lead	ppm	ASTM D5185m	>40	**1**	6	3
Copper	ppm	ASTM D5185m	>330	**2**	<1	3
Tin	ppm	ASTM D5185m	>15	**<1**	2	0
Vanadium	ppm	ASTM D5185m		**<1**	<1	<1
Cadmium	ppm	ASTM D5185m		**<1**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	**9**	201	95
Barium	ppm	ASTM D5185m	10	**0**	0	8
Molybdenum	ppm	ASTM D5185m	100	**52**	69	28
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	450	**705**	546	204
Calcium	ppm	ASTM D5185m	3000	**978**	1279	1387
Phosphorus	ppm	ASTM D5185m	1150	**774**	727	635
Zinc	ppm	ASTM D5185m	1350	**1006**	897	778
Sulfur	ppm	ASTM D5185m	4250	**2698**	4024	2659

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**7**	8	4
Sodium	ppm	ASTM D5185m		**13**	19	▲ 181
Potassium	ppm	ASTM D5185m	>20	**27**	2	1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.1**	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**5.1**	4.8	4.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	**16.5**	14.3	14.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**12.3**	8.1	8.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	**8.8**	7.4	7.5

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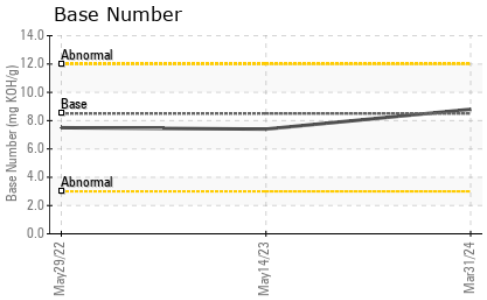
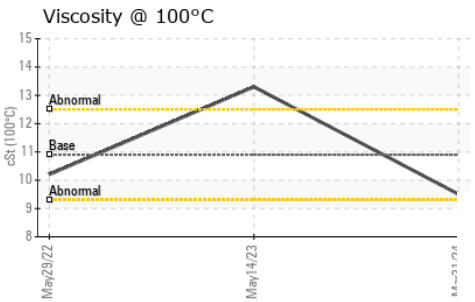
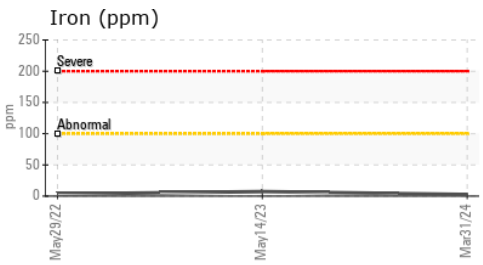


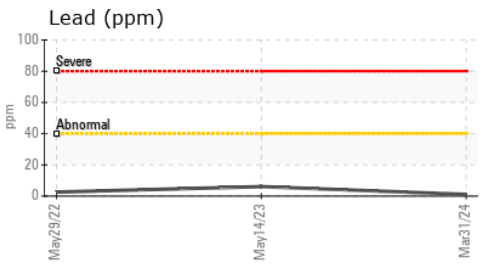


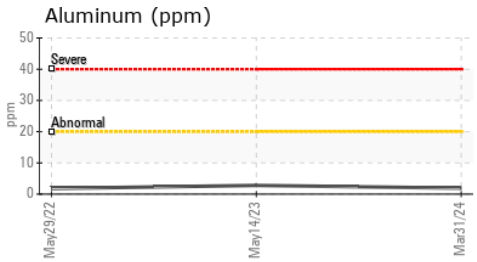
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	▲ MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
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	>0.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

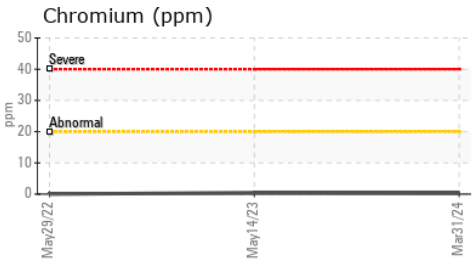
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.9	**9.5**	13.3	10.2

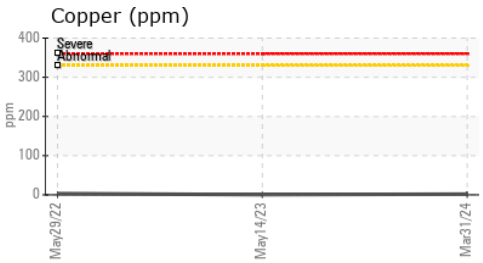
GRAPHS

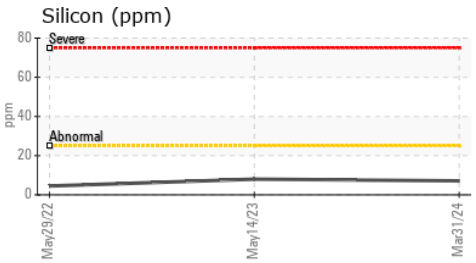


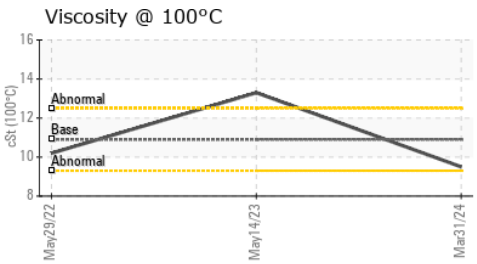


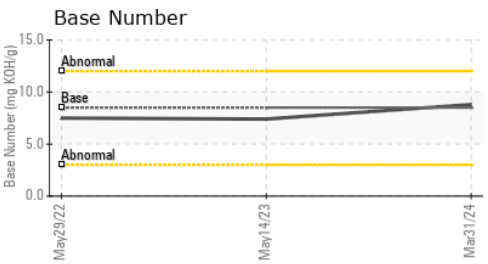












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0921731 **Received** : 01 Apr 2024
Lab Number : 06134627 **Tested** : 02 Apr 2024
Unique Number : 10954092 **Diagnosed** : 03 Apr 2024 - Sean Felton
Test Package : MOB 1 (Additional Tests: TBN)

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)

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