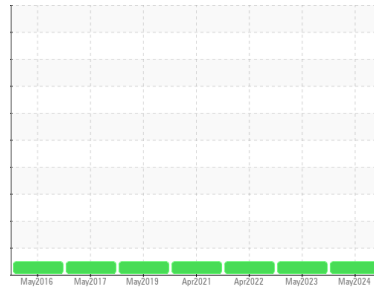




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
Dutchess County Beekman A050739885
 Component
Diesel Engine
 Fluid
 DIESEL ENGINE OIL SAE 15W40 (2 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	WC0921688	WC0799885	WC0651434
Sample Date	Client Info	20 May 2024	02 May 2023	25 Apr 2022
Machine Age	hrs Client Info	0	0	497
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<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 >90	2	2	2
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >2	0	0	0
Titanium	ppm ASTM D5185m >2	<1	0	0
Silver	ppm ASTM D5185m >2	<1	0	<1
Aluminum	ppm ASTM D5185m >20	2	<1	<1
Lead	ppm ASTM D5185m >40	<1	0	<1
Copper	ppm ASTM D5185m >330	<1	<1	<1
Tin	ppm ASTM D5185m >15	<1	0	<1
Antimony	ppm ASTM D5185m	---	---	---
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 250	8	11	13
Barium	ppm ASTM D5185m 10	0	0	0
Molybdenum	ppm ASTM D5185m 100	52	49	58
Manganese	ppm ASTM D5185m	0	<1	<1
Magnesium	ppm ASTM D5185m 450	790	771	887
Calcium	ppm ASTM D5185m 3000	1164	1279	1088
Phosphorus	ppm ASTM D5185m 1150	1119	1047	1038
Zinc	ppm ASTM D5185m 1350	1177	1280	1223
Sulfur	ppm ASTM D5185m 4250	3558	4028	2651

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	4	3	4
Sodium	ppm ASTM D5185m >158	2	<1	0
Potassium	ppm ASTM D5185m >20	2	0	1

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >6	0.7	0	0.1
Nitration	Abs/cm *ASTM D7624 >20	7.8	4.2	5.2
Sulfation	Abs/.1mm *ASTM D7415 >30	22.6	15.0	19.5

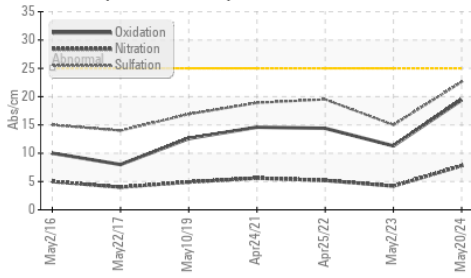
FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	19.4	11.3	14.4
Base Number (BN)	mg KOH/g ASTM D2896 8.5	9.9	8.3	11.1

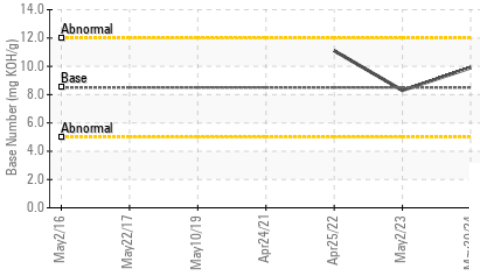


OIL ANALYSIS REPORT

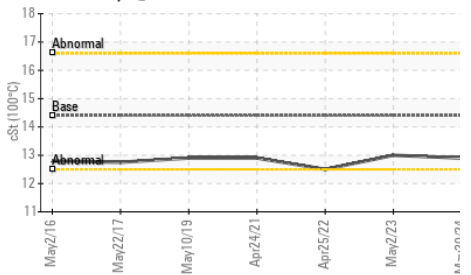
FT-IR (Direct Trend)



Base Number



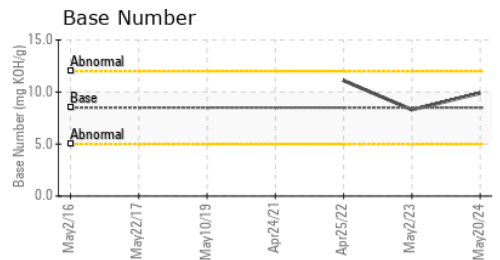
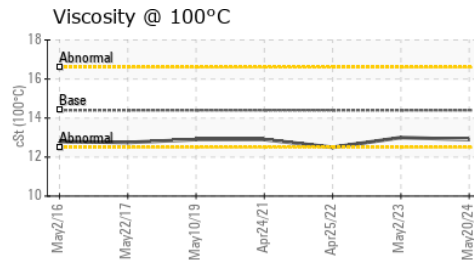
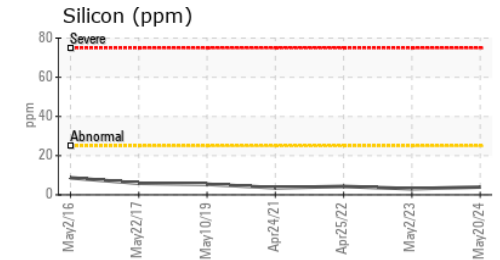
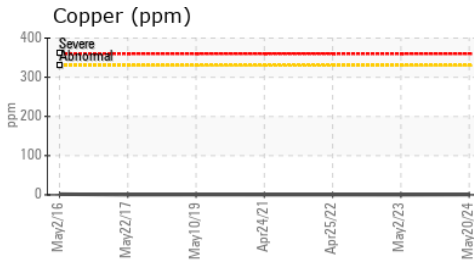
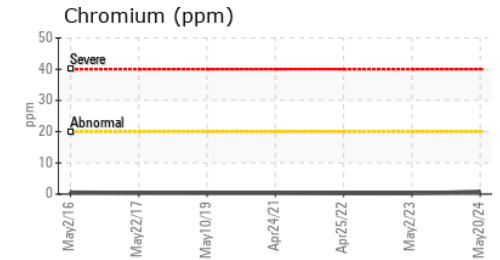
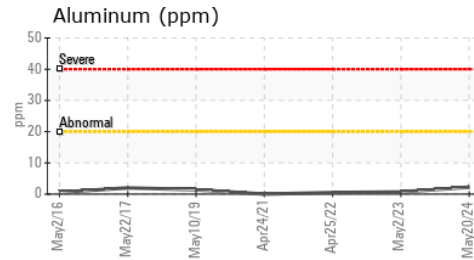
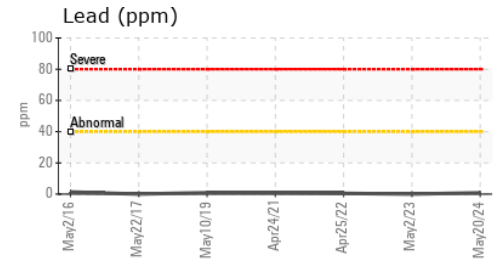
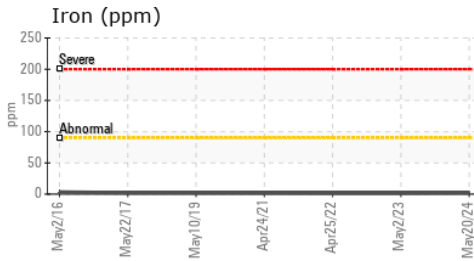
Viscosity @ 100°C



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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	12.9	13.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0921688 **Received** : 20 May 2024
Lab Number : 06185550 **Tested** : 22 May 2024
Unique Number : 11036876 **Diagnosed** : 22 May 2024 - Wes Davis
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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