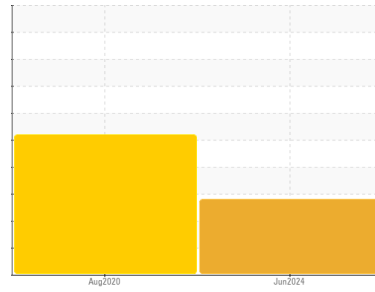




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
KOHLER KOHLER 180
 Component
Diesel Engine
 Fluid
CHEVRON 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Appearance is milky. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0827474	WC0495649	---
Sample Date	Client Info			25 Jun 2024	30 Aug 2020	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			Changed	Changed	---
Sample Status				ABNORMAL	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<1	17	---
Chromium	ppm	ASTM D5185m	>20	0	<1	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	2	0	---
Lead	ppm	ASTM D5185m	>40	0	8	---
Copper	ppm	ASTM D5185m	>330	1	5	---
Tin	ppm	ASTM D5185m	>15	0	2	---
Antimony	ppm	ASTM D5185m		---	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		49	150	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		65	129	---
Manganese	ppm	ASTM D5185m		<1	12	---
Magnesium	ppm	ASTM D5185m		935	143	---
Calcium	ppm	ASTM D5185m		1112	1599	---
Phosphorus	ppm	ASTM D5185m		1014	554	---
Zinc	ppm	ASTM D5185m		1239	717	---
Sulfur	ppm	ASTM D5185m		3655	1515	---

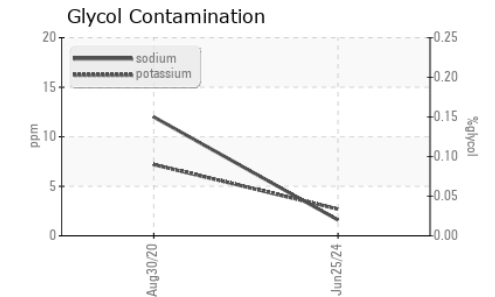
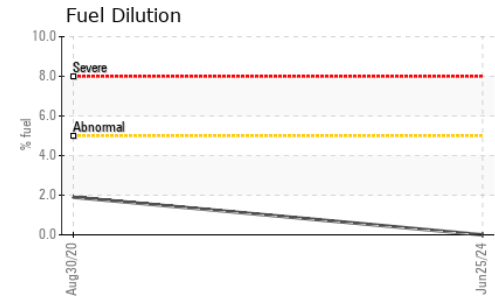
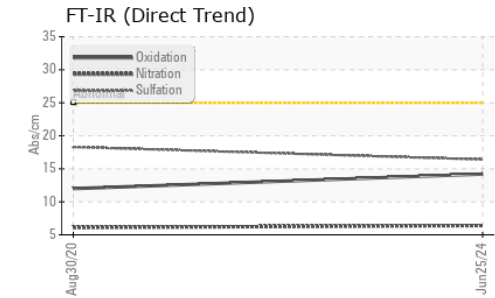
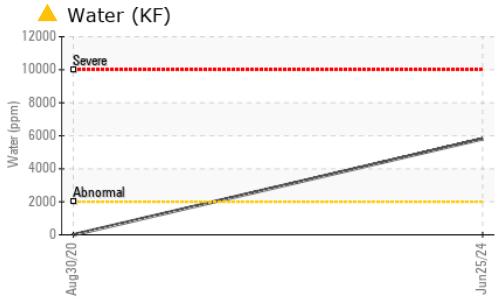
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	▲ 143	---
Sodium	ppm	ASTM D5185m	>50	2	12	---
Potassium	ppm	ASTM D5185m	>20	3	7	---
Fuel	%	ASTM D3524	>5	<1.0	1.9	---
Water	%	ASTM D6304	>0.2	▲ 0.582	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 5820	---	---
Glycol	%	*ASTM D2982		NEG	NEG	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0	---
Nitration	Abs/cm	*ASTM D7624	>20	6.4	6.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.4	18.3	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	12	---
Base Number (BN)	mg KOH/g	ASTM D2896		11.6	---	---



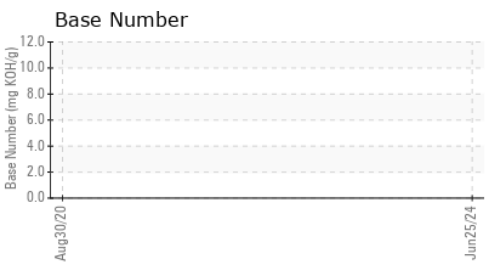
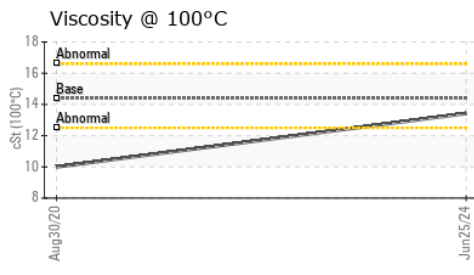
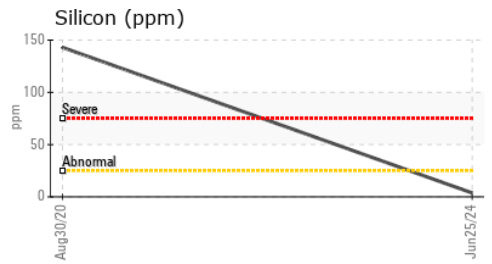
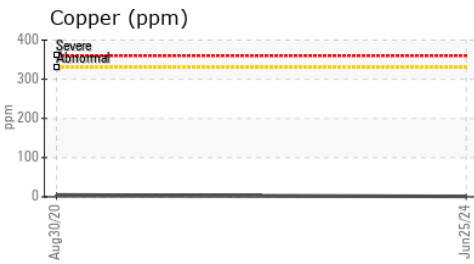
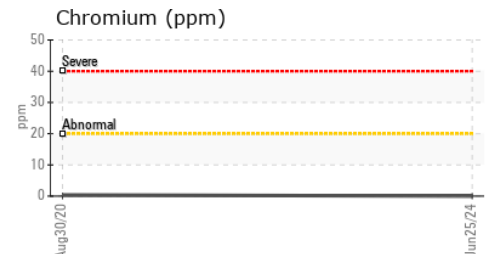
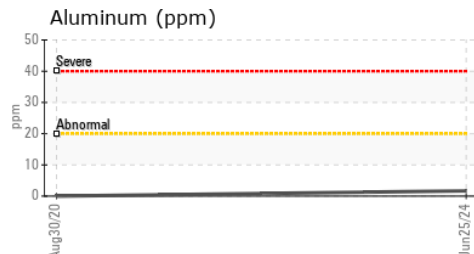
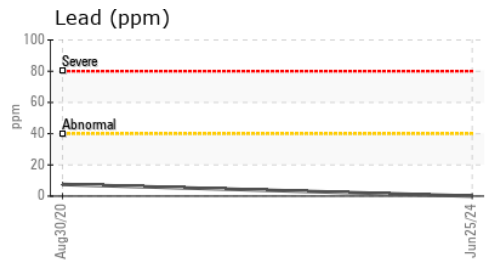
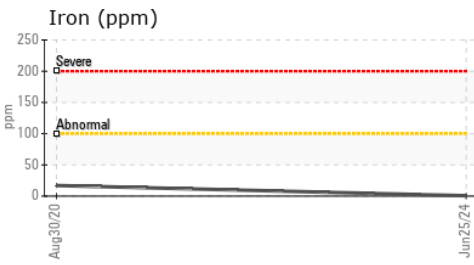
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	● MILKY	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.42	▲ 10.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0827474 **Received** : 25 Jun 2024
Lab Number : 06220579 **Tested** : 28 Jun 2024
Unique Number : 11098776 **Diagnosed** : 28 Jun 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KF, PercentFuel, TBN)

B & B POULTRY
 110 ALMOND RD
 NORMA, NJ
 US 08347
 Contact: MARK FISHER

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)