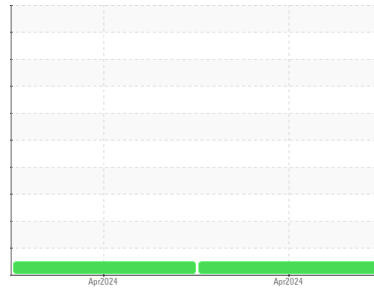




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
[CAN 130 RECD 3/11/24]
 Machine Id
ASTM ISD0 2403
 Component
Diesel Engine
 Fluid
{not provided} (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. 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 suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC06161668	WC06148874	---
Sample Date	Client Info			26 Apr 2024	15 Apr 2024	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Glycol	WC Method			NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	13	14	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	3	2	---
Lead	ppm	ASTM D5185m	>40	<1	<1	---
Copper	ppm	ASTM D5185m	>330	<1	<1	---
Tin	ppm	ASTM D5185m	>15	0	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
Cadmium	ppm	ASTM D5185m		0	0	---

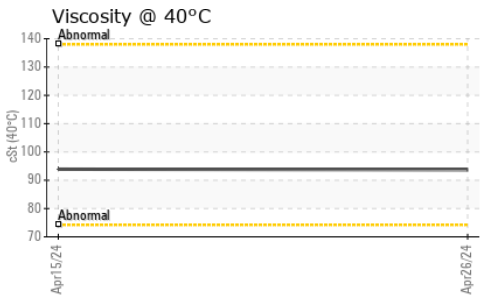
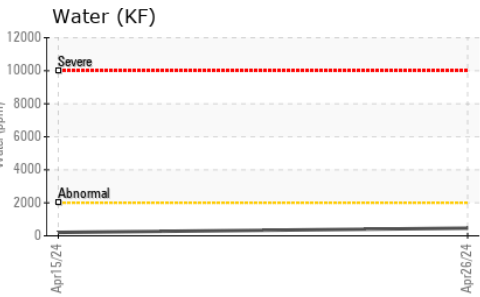
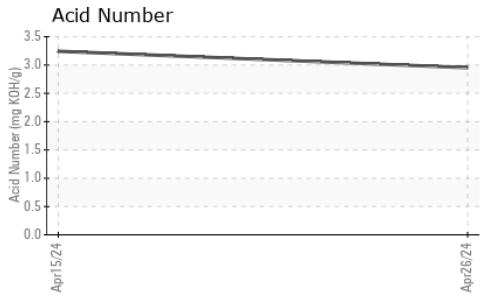
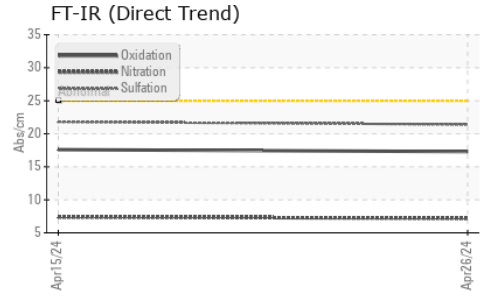
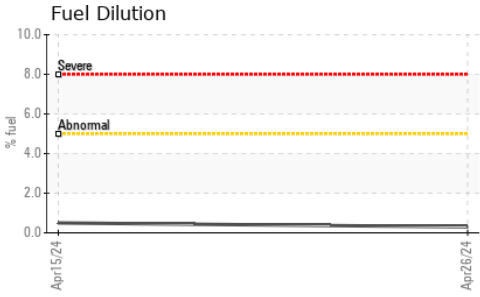
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		196	191	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		72	71	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		487	459	---
Calcium	ppm	ASTM D5185m		1234	1217	---
Phosphorus	ppm	ASTM D5185m		924	879	---
Zinc	ppm	ASTM D5185m		1115	1044	---
Sulfur	ppm	ASTM D5185m		3302	3825	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	7	---
Sodium	ppm	ASTM D5185m		2	2	---
Potassium	ppm	ASTM D5185m	>20	3	3	---
Fuel	%	ASTM D3524	>5	0.3	0.5	---
Water	%	ASTM D6304	>0.2	0.046	0.020	---
ppm Water	ppm	ASTM D6304	>2000	466	208	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.4	---
Sulfation	Abs/1mm	*ASTM D7415	>30	21.4	21.8	---



OIL ANALYSIS REPORT

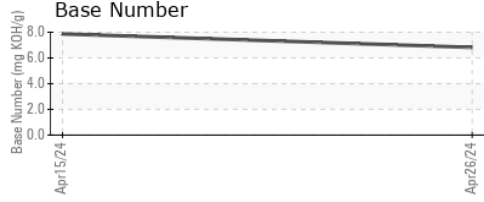
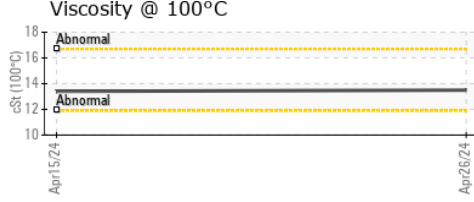
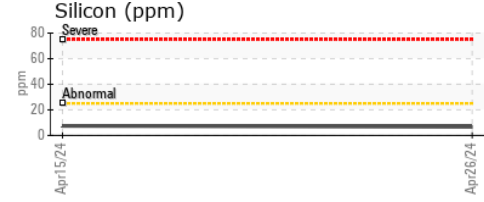
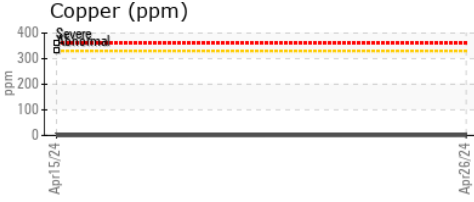
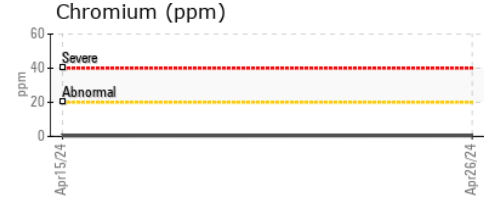
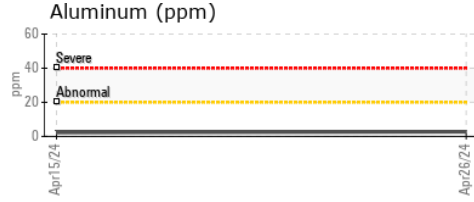
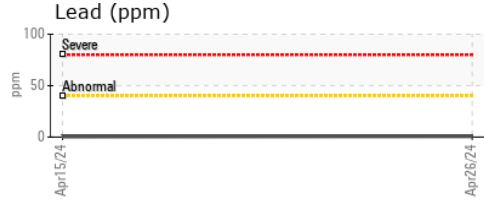
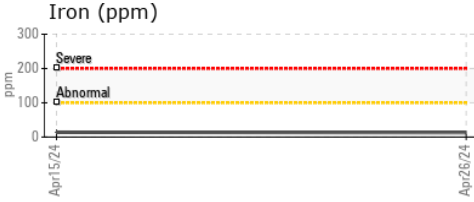


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	*ASTM D7414	>25	17.3	17.6	---
Acid Number (AN)	mg KOH/g	ASTM D8045		2.952	3.243	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.82	7.87	---

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 @ 40°C	cSt	ASTM D445		93.7	93.9	---
Visc @ 100°C	cSt	ASTM D445		13.5	13.4	---
Viscosity Index (VI)	Scale	ASTM D2270		144	142	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06161668 **Received** : 26 Apr 2024
Lab Number : **06161668** **Tested** : 03 May 2024
Unique Number : 10997091 **Diagnosed** : 03 May 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: FuelDilution, KF, KV40, PercentFuel, VI)

WEARCHECK LUBRICATION SERVICES PT ACCOUNT
 501 Madison Ave
 Cary, NC
 US 27513
 Contact: Doug Bogart
 dbogart@wearcheckusa.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)