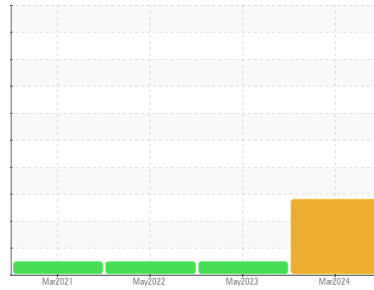




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id

Westchester des fleet# 618520 1407349

Component

Diesel Engine

Fluid

DISEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

Light fuel dilution occurring. There is a light concentration of water present in the oil.

● Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0921713	WC0748920	WC0651480
Sample Date	Client Info	31 Mar 2024	11 May 2023	05 May 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL

WEAR METALS

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

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 250	17	5	0
Barium	ppm	ASTM D5185m 10	0	0	0
Molybdenum	ppm	ASTM D5185m 100	49	57	58
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m 450	742	984	832
Calcium	ppm	ASTM D5185m 3000	1045	1085	1122
Phosphorus	ppm	ASTM D5185m 1150	867	1042	991
Zinc	ppm	ASTM D5185m 1350	1047	1300	1209
Sulfur	ppm	ASTM D5185m 4250	3429	3932	3346

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	6	6	7
Sodium	ppm	ASTM D5185m >158	15	1	1
Potassium	ppm	ASTM D5185m >20	35	6	<1
Fuel	%	ASTM D3524 >5	▲ 3.8	<1.0	<1.0
Water	%	ASTM D6304 >0.2	▲ 0.293	---	---
ppm Water	ppm	ASTM D6304 >2000	▲ 2930	---	---
Glycol	%	*ASTM D2982	0.0	NEG	NEG

INFRA-RED

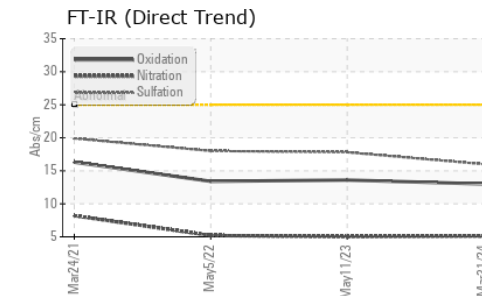
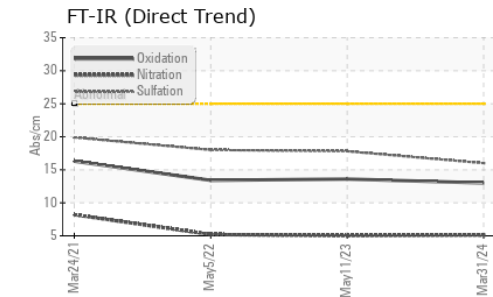
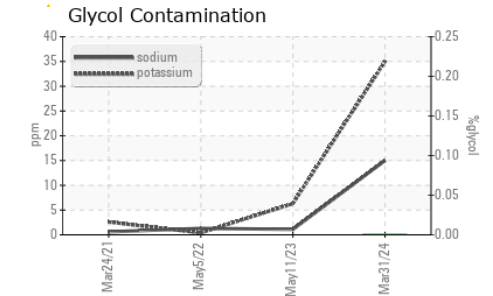
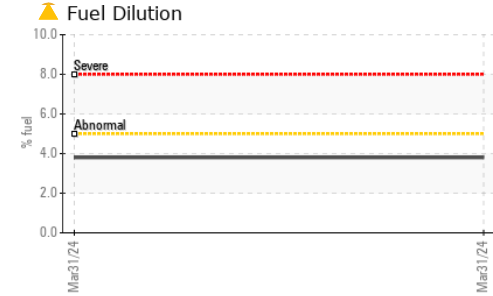
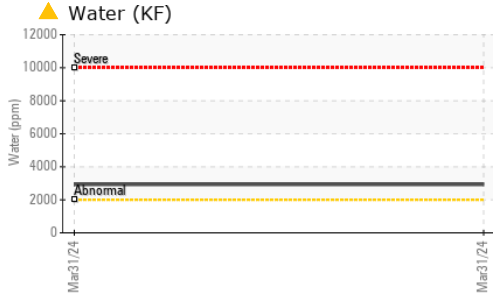
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844 >3	0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	5.1	5.0	5.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	16.0	17.8	18.0

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	13.0	13.6	13.4
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	9.6	9.6	9.7



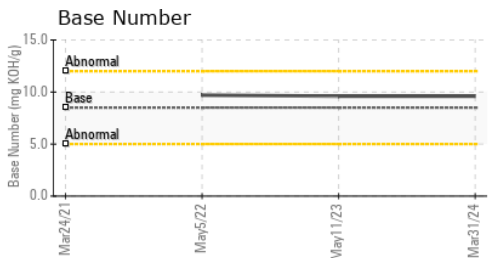
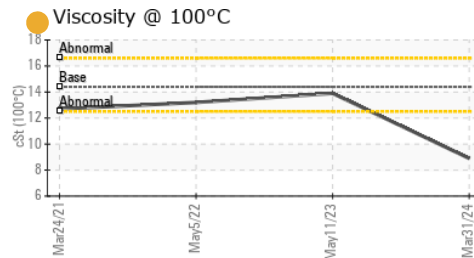
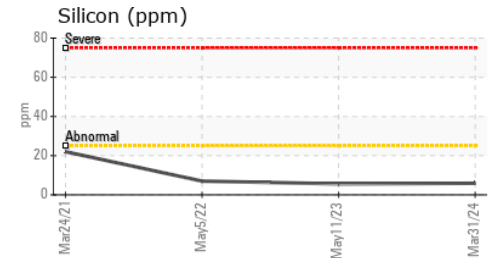
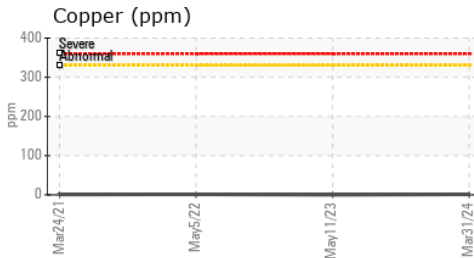
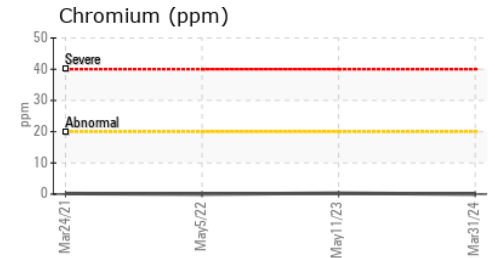
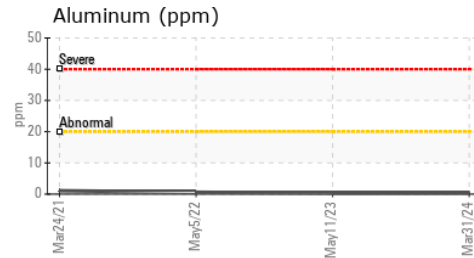
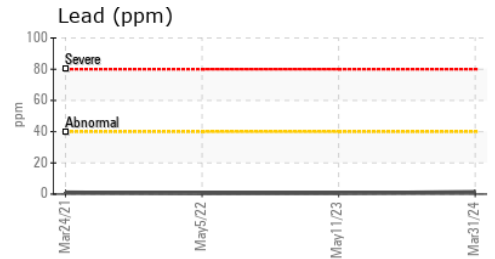
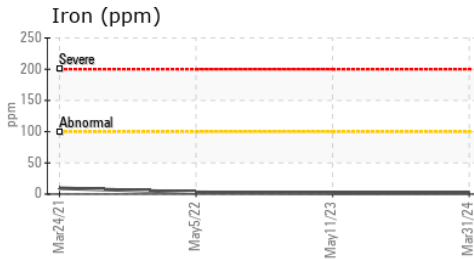
OIL ANALYSIS REPORT



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	LIGHT
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	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	8.9	13.9

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0921713
Lab Number : 06134615
Unique Number : 10954080
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KF, PercentFuel, TBN)

Received : 01 Apr 2024
Tested : 04 Apr 2024
Diagnosed : 05 Apr 2024 - Jonathan Hester

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 NEW WINDSOR, NY
 US 12553

Contact: JOE SAYEGH
 joe@gentechltd.com

T: (845)568-0500
 F: (845)568-3073

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)