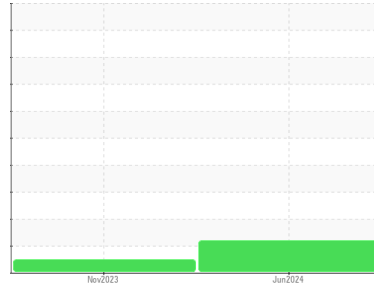




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id

S7

Component

Diesel Engine

Fluid

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

DIAGNOSIS

● Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

● Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0841441	WC0841456	---
Sample Date	Client Info		12 Jun 2024	14 Nov 2023	---
Machine Age	hrs	Client Info	15048	0	---
Oil Age	hrs	Client Info	1515	489	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ATTENTION	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >120	11	20	---
Chromium	ppm	ASTM D5185m >20	0	<1	---
Nickel	ppm	ASTM D5185m >5	0	<1	---
Titanium	ppm	ASTM D5185m >2	0	<1	---
Silver	ppm	ASTM D5185m >2	0	0	---
Aluminum	ppm	ASTM D5185m >20	2	5	---
Lead	ppm	ASTM D5185m >40	0	1	---
Copper	ppm	ASTM D5185m >330	0	1	---
Tin	ppm	ASTM D5185m >15	0	1	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	6	21	---
Barium	ppm	ASTM D5185m 10	0	<1	---
Molybdenum	ppm	ASTM D5185m 100	63	65	---
Manganese	ppm	ASTM D5185m	0	<1	---
Magnesium	ppm	ASTM D5185m 450	729	143	---
Calcium	ppm	ASTM D5185m 3000	1206	2084	---
Phosphorus	ppm	ASTM D5185m 1150	938	962	---
Zinc	ppm	ASTM D5185m 1350	1109	1154	---
Sulfur	ppm	ASTM D5185m 4250	3265	3491	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	3	4	---
Sodium	ppm	ASTM D5185m >158	3	2	---
Potassium	ppm	ASTM D5185m >20	<1	<1	---
Fuel	%	ASTM D3524 >3.0	▲ 2.2	<1.0	---

INFRA-RED

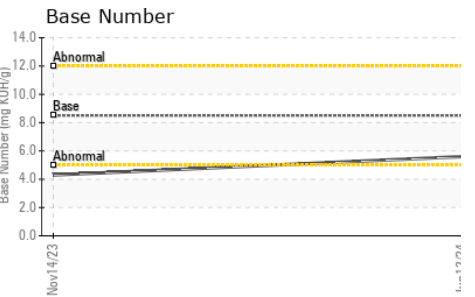
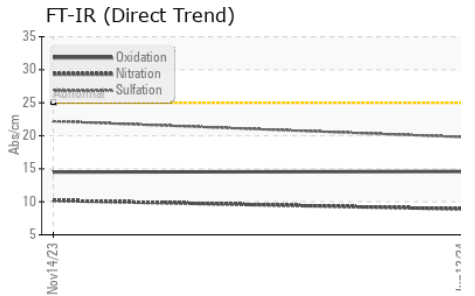
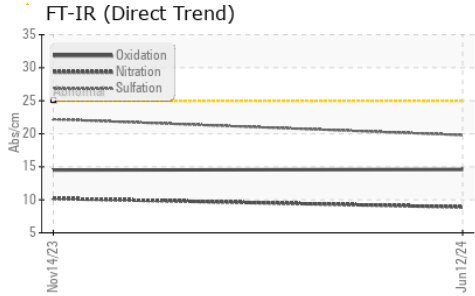
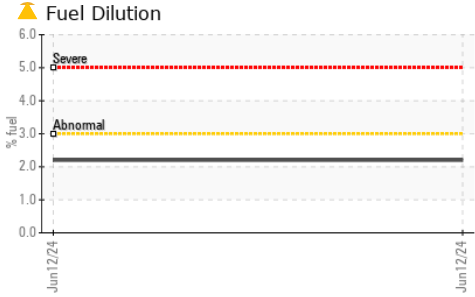
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >4	0.3	0.3	---
Nitration	Abs/cm	*ASTM D7624 >20	8.9	10.2	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.8	22.2	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	14.6	14.5	---
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	5.6	4.3	---



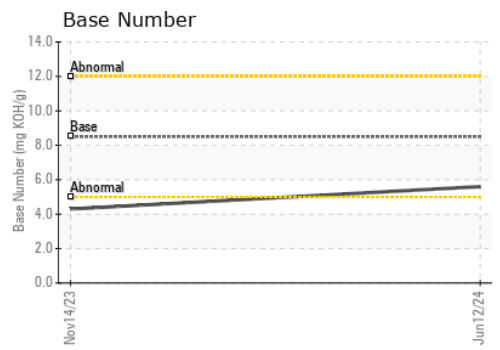
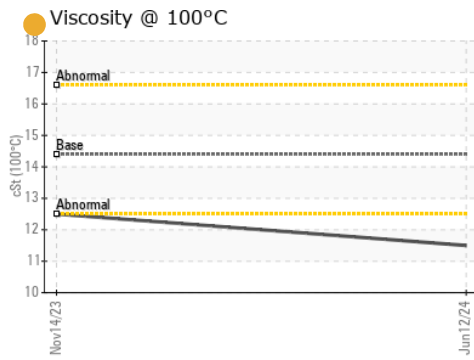
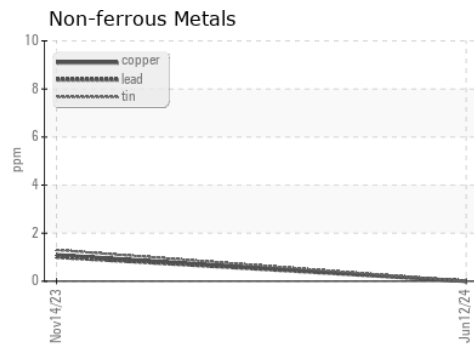
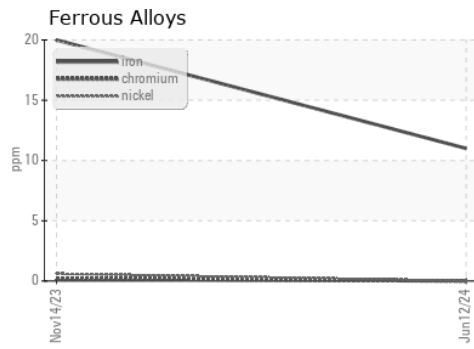
OIL ANALYSIS REPORT



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	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	● 11.5	12.5

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0841441 **Received** : 19 Jun 2024
Lab Number : 06214304 **Tested** : 21 Jun 2024
Unique Number : 11087168 **Diagnosed** : 21 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

Apple Valley Waste - SEW Location
 309 Salina Road
 Sewell, NJ
 US 08080
 Contact: Service Manager

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)

T:
F: