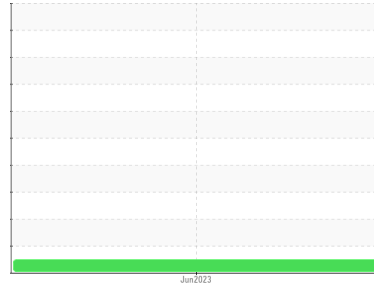


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
211
Component
Diesel Engine
Fluid
DELO 400 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

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 condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0032530	---	---
Sample Date	Client Info		28 Jun 2023	---	---
Machine Age	mls Client Info		10306	---	---
Oil Age	mls Client Info		10306	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100	61	---	---
Chromium	ppm ASTM D5185m	>20	<1	---	---
Nickel	ppm ASTM D5185m	>4	0	---	---
Titanium	ppm ASTM D5185m		<1	---	---
Silver	ppm ASTM D5185m	>3	0	---	---
Aluminum	ppm ASTM D5185m	>20	24	---	---
Lead	ppm ASTM D5185m	>40	<1	---	---
Copper	ppm ASTM D5185m	>330	19	---	---
Tin	ppm ASTM D5185m	>15	1	---	---
Vanadium	ppm ASTM D5185m		0	---	---
Cadmium	ppm ASTM D5185m		0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		19	---	---
Barium	ppm ASTM D5185m		0	---	---
Molybdenum	ppm ASTM D5185m		17	---	---
Manganese	ppm ASTM D5185m		4	---	---
Magnesium	ppm ASTM D5185m		832	---	---
Calcium	ppm ASTM D5185m		1554	---	---
Phosphorus	ppm ASTM D5185m		791	---	---
Zinc	ppm ASTM D5185m		997	---	---
Sulfur	ppm ASTM D5185m		3804	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	12	---	---
Sodium	ppm ASTM D5185m		4	---	---
Potassium	ppm ASTM D5185m	>20	64	---	---
Fuel	% ASTM D3524	>5	0.5	---	---

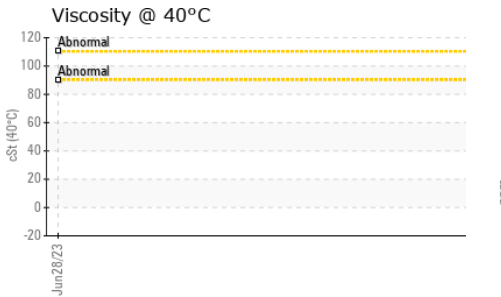
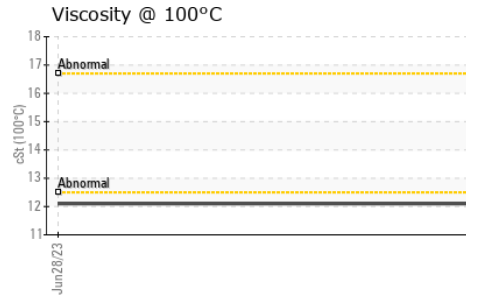
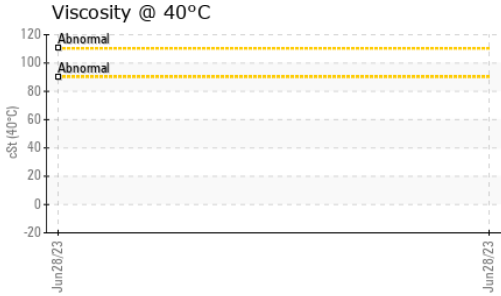
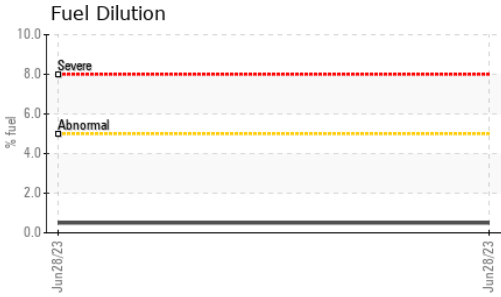
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	0.6	---	---
Nitration	Abs/cm *ASTM D7624	>20	13.2	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	25.8	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	22.0	---	---
Base Number (BN)	mg KOH/g ASTM D2896		5.4	---	---

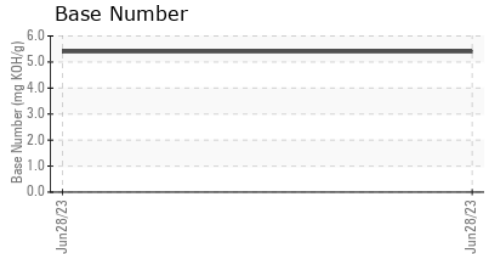
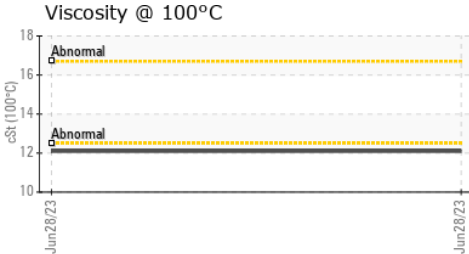
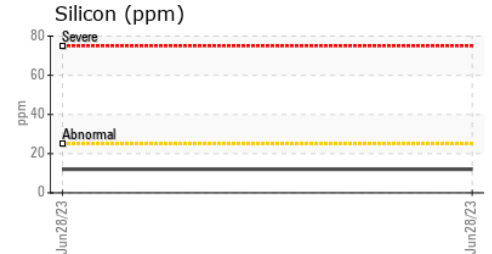
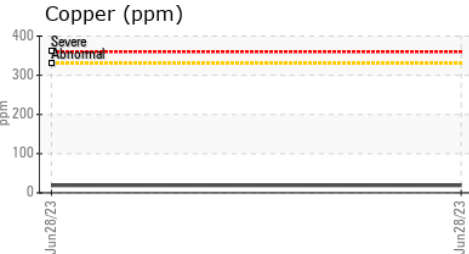
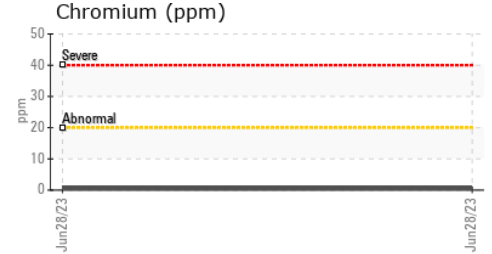
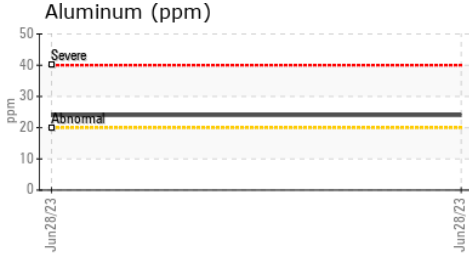
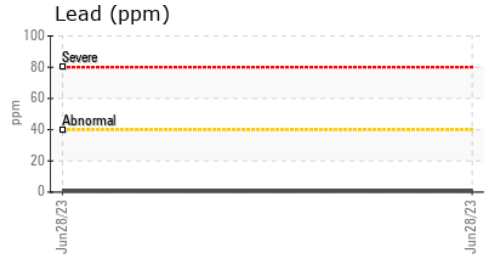
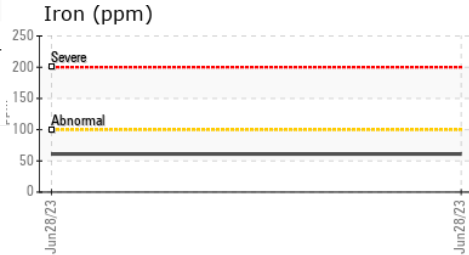
OIL ANALYSIS REPORT



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	12.1	---	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PC0032530 **Received** : 14 Aug 2023
Lab Number : 05924031 **Diagnosed** : 16 Aug 2023
Unique Number : 10603978 **Diagnostician** : Jonathan Hester
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, TBN)

Iroquois Bar Corp.
 155 Commerce Drive
 Lacakwana, NY
 US 14218
 Contact: Denver Persinger
 dpersinger@iroquoisbar.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)