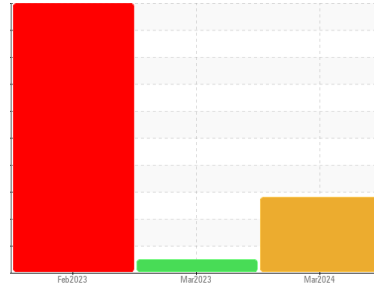




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
INGERSOLL RAND 185 INGERSOLL RAND 185
 Component
Diesel Engine
 Fluid
TRC MOLY XL PROSPEC III 15W40 (2 GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check the fuel injection system. The oil 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

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		TR06139372	TR05784636	TR05784633
Sample Date	Client Info		04 Mar 2024	02 Mar 2023	21 Feb 2023
Machine Age	hrs	Client Info	1344	1260	0
Oil Age	hrs	Client Info	0	243	60
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			SEVERE	NORMAL	SEVERE

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.21	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	▲ 0.20

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >51	12	74	▲ 488
Chromium	ppm	ASTM D5185m >11	0	3	▲ 17
Nickel	ppm	ASTM D5185m >5	2	4	8
Titanium	ppm	ASTM D5185m	0	<1	69
Silver	ppm	ASTM D5185m >3	<1	0	<1
Aluminum	ppm	ASTM D5185m >31	4	5	● 19
Lead	ppm	ASTM D5185m >26	1	11	▲ 377
Copper	ppm	ASTM D5185m >26	<1	22	▲ 180
Tin	ppm	ASTM D5185m >4	<1	3	▲ 38
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	285	178	265
Barium	ppm	ASTM D5185m	0	0	154
Molybdenum	ppm	ASTM D5185m	62	220	144
Manganese	ppm	ASTM D5185m	<1	2	7
Magnesium	ppm	ASTM D5185m	316	584	225
Calcium	ppm	ASTM D5185m 4500	1486	4758	1713
Phosphorus	ppm	ASTM D5185m	865	964	1889
Zinc	ppm	ASTM D5185m 1400	1043	1313	574
Sulfur	ppm	ASTM D5185m	3470	4163	2129

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >22	14	18	▲ 140
Sodium	ppm	ASTM D5185m >31	2	9	▲ 1714
Potassium	ppm	ASTM D5185m >20	2	4	▲ 2974
Fuel	%	ASTM D3524 >2.1	▲ 9.2	<1.0	<1.0

INFRA-RED

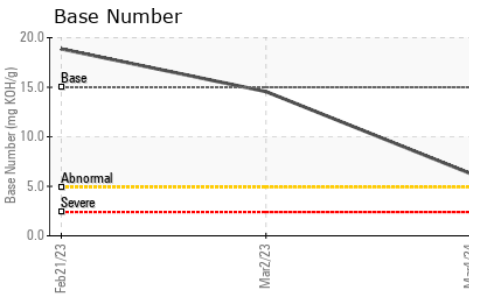
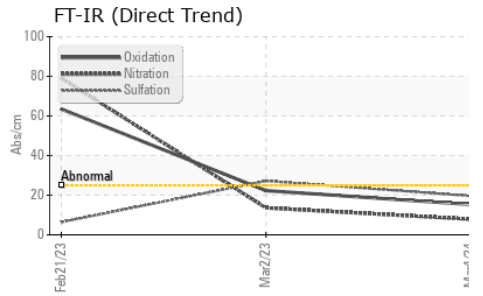
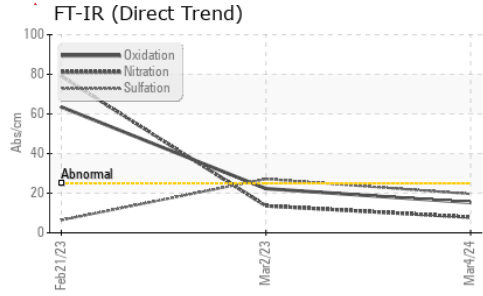
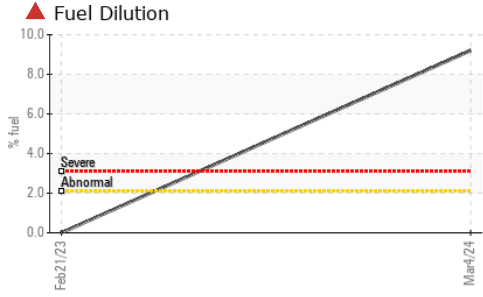
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.1	0.3	0.8
Nitration	Abs/cm	*ASTM D7624 >20	7.9	13.6	79.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.6	27.2	6.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.3	22.3	63.5
Base Number (BN)	mg KOH/g	ASTM D2896 15	6.28	14.56	18.87



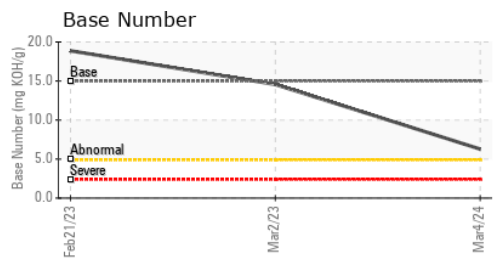
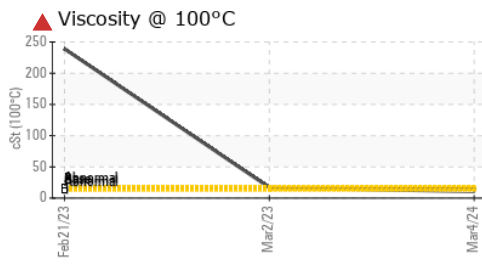
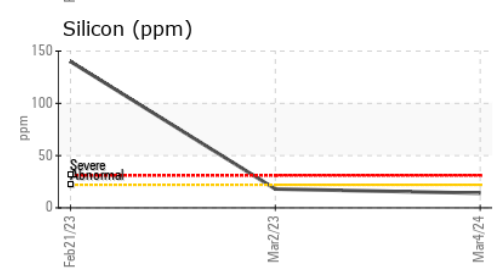
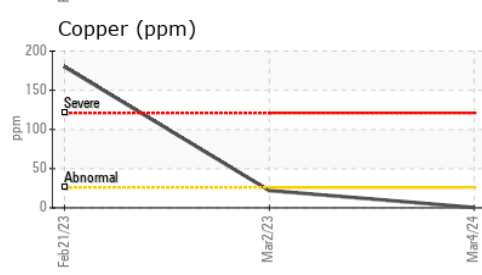
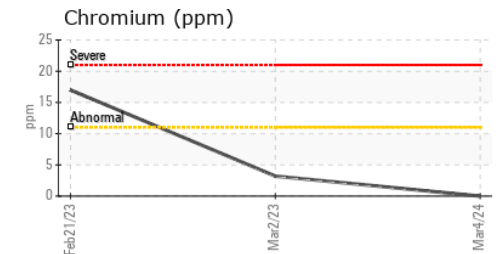
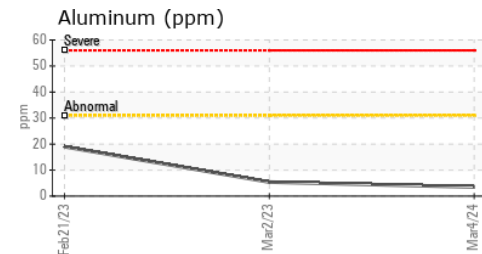
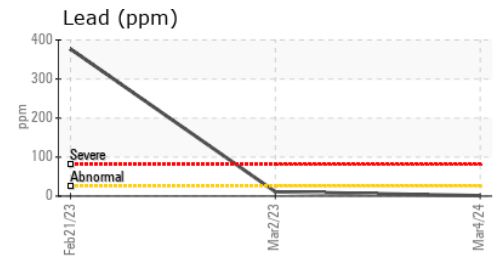
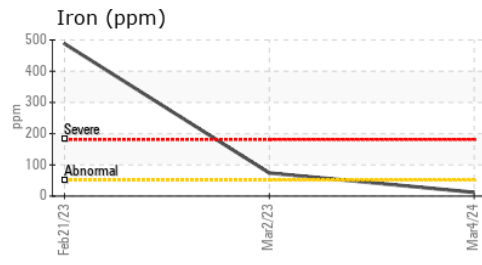
OIL ANALYSIS REPORT



PARAMETER	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	MILKY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	NEG	0.2%
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.5	10.6	16.9

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06139372 **Received** : 04 Apr 2024
Lab Number : 06139372 **Tested** : 09 Apr 2024
Unique Number : 10964180 **Diagnosed** : 09 Apr 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

J.P. CARDILLO SON INC
 1 MELVIN ST
 WAKEFIELD, MA
 US 01880
 Contact: MIKE RICHARDS

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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: (781)245-3478