

PROBLEM SUMMARY

Machine Id
2319
 Component
Diesel Engine
 Fluid
SHELL ROTELLA T 15W40 (--- GAL)

Sample Rating Trend

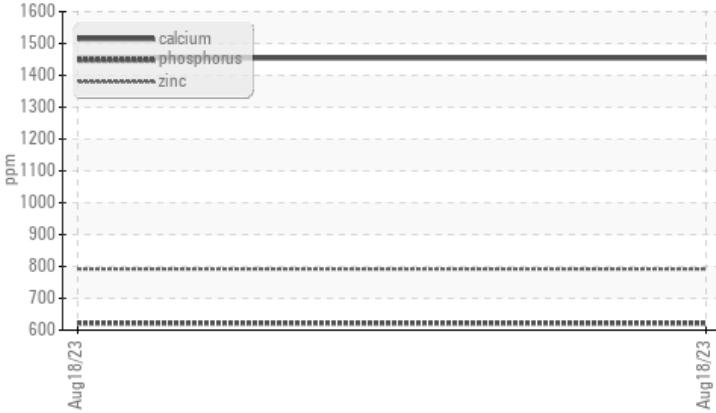


FUEL

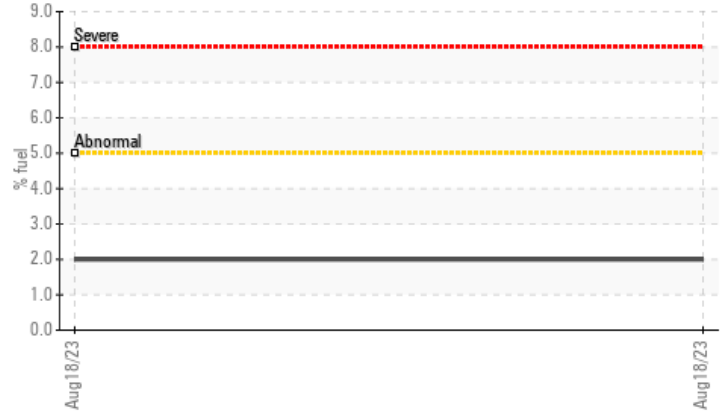


COMPONENT CONDITION SUMMARY

▲ Additives



▲ Fuel Dilution



RECOMMENDATION

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	---	---
Phosphorus	ppm	ASTM D5185m	1064	▲ 622	---	---
Zinc	ppm	ASTM D5185m	1160	▲ 792	---	---
Sulfur	ppm	ASTM D5185m	4996	▲ 2224	---	---
Fuel	%	ASTM D3524	>5	▲ 2.0	---	---

Customer Id: ERGMAR605
 Sample No.: PCA0076238
 Lab Number: 05976365
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

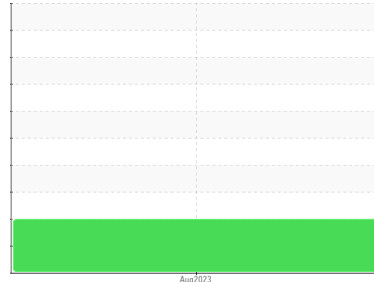
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Information Required	---	---	?	Please specify the component make and model with your next sample.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
2319
 Component
Diesel Engine
 Fluid
SHELL ROTELLA T 15W40 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. 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	PCA0076238	---	---
Sample Date	Client Info	18 Aug 2023	---	---
Machine Age	mls	Client Info	37000	---
Oil Age	mls	Client Info	18000	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ATTENTION	---	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	26	---
Chromium	ppm	ASTM D5185m >20	3	---
Nickel	ppm	ASTM D5185m >4	0	---
Titanium	ppm	ASTM D5185m	0	---
Silver	ppm	ASTM D5185m >3	0	---
Aluminum	ppm	ASTM D5185m >20	25	---
Lead	ppm	ASTM D5185m >40	2	---
Copper	ppm	ASTM D5185m >330	6	---
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 316	99	---
Barium	ppm	ASTM D5185m 0.0	0	---
Molybdenum	ppm	ASTM D5185m 1.2	120	---
Manganese	ppm	ASTM D5185m	2	---
Magnesium	ppm	ASTM D5185m 24	623	---
Calcium	ppm	ASTM D5185m 2292	1454	---
Phosphorus	ppm	ASTM D5185m 1064	▲ 622	---
Zinc	ppm	ASTM D5185m 1160	▲ 792	---
Sulfur	ppm	ASTM D5185m 4996	▲ 2224	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	13	---
Sodium	ppm	ASTM D5185m	2	---
Potassium	ppm	ASTM D5185m >20	75	---
Fuel	%	ASTM D3524 >5	▲ 2.0	---

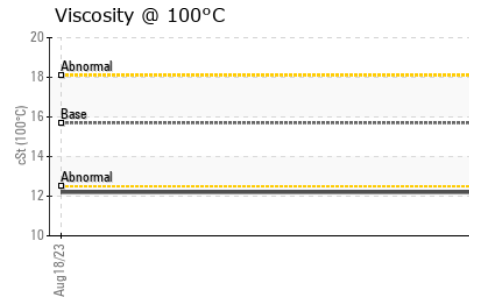
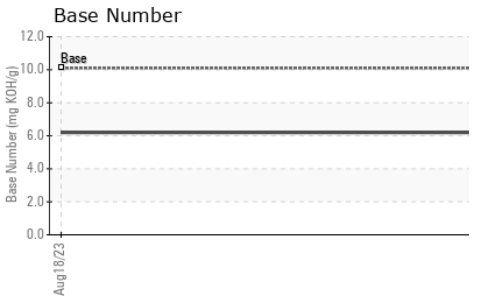
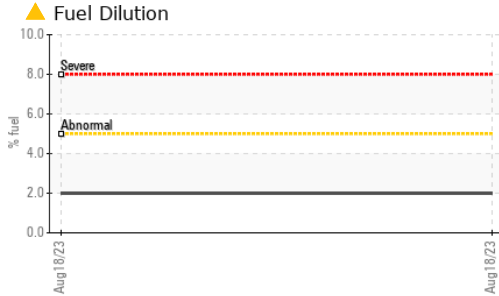
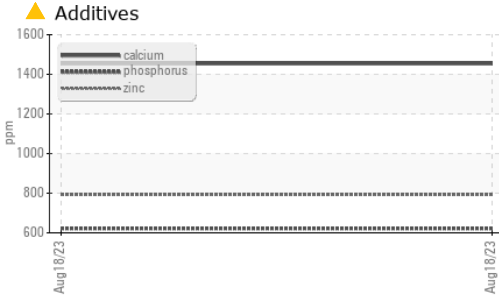
INFRA-RED

method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.3	---
Nitration	Abs/cm	*ASTM D7624 >20	10.2	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.4	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	19.7	---
Base Number (BN)	mg KOH/g	ASTM D2896 10.1	6.2	---

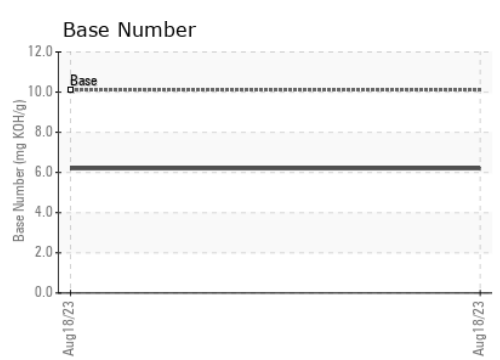
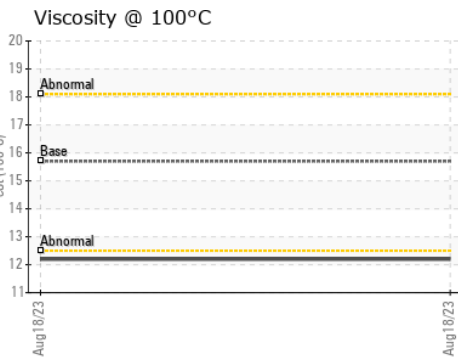
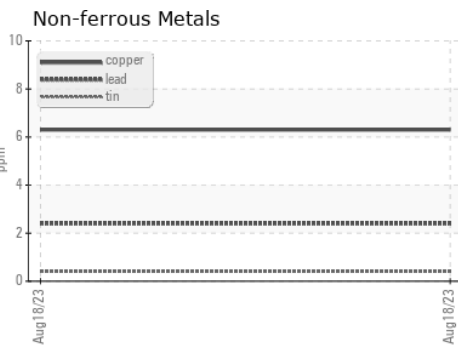
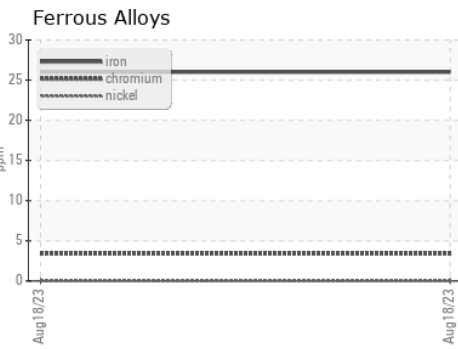
OIL ANALYSIS REPORT



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	15.7	12.2	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0076238 **Received** : 11 Oct 2023
Lab Number : 05976365 **Diagnosed** : 16 Oct 2023
Unique Number : 10688315 **Diagnostician** : Wes Davis
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Ergon Trucking Inc. - MAR605
 35020 State Route 7
 Marietta, OH
 US 45768-5236
 Contact: JASON JULIAN

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: