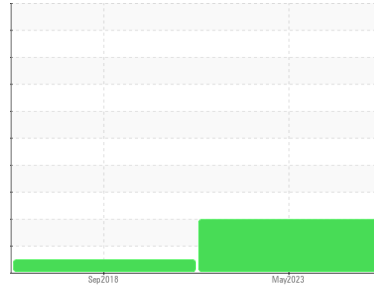


PROBLEM SUMMARY

Sample Rating Trend

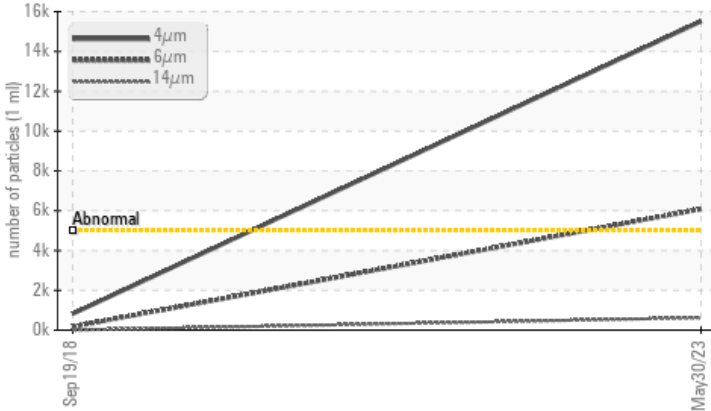
ISO

Area
CRM64
Machine Id
CRM 64 ROLLING OIL BULK TRUCK - RP138829
Component
New (Unused) Oil
Fluid
{not provided} (--- QTS)



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ASTM D7647	ASTM D7647	ABNORMAL	NORMAL	---
Particles >4µm	ASTM D7647	>5000	▲ 15517	822	---
Particles >6µm	ASTM D7647	>1300	▲ 6080	170	---
Particles >14µm	ASTM D7647	>160	▲ 623	5	---
Particles >21µm	ASTM D7647	>40	▲ 130	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/20/16	17/15/10	---

Customer Id: OUTCALAL
Sample No.: RP0035126
Lab Number: 05861128
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

19 Sep 2018 Diag: Doug Bogart

NORMAL



This is a baseline read-out on the submitted sample.

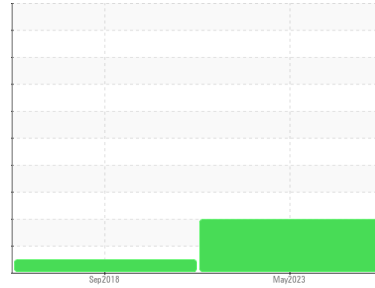
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
CRM64
 Machine Id
CRM 64 ROLLING OIL BULK TRUCK - RP138829
 Component
New (Unused) Oil
 Fluid
{not provided} (--- QTS)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		RP0035126	RP138829	---
Sample Date	Client Info		30 May 2023	19 Sep 2018	---
Machine Age	mls	Client Info	0	0	---
Oil Age	mls	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		13	---	---
Iron	ppm	ASTM D5185m >5	<1	1	---
Chromium	ppm	ASTM D5185m >5	0	0	---
Nickel	ppm	ASTM D5185m >5	0	<1	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m >5	0	0	---
Aluminum	ppm	ASTM D5185m >5	0	<1	---
Lead	ppm	ASTM D5185m >5	0	<1	---
Copper	ppm	ASTM D5185m >5	0	0	---
Tin	ppm	ASTM D5185m >5	0	6	---
Antimony	ppm	ASTM D5185m	---	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	0	<1	---
Manganese	ppm	ASTM D5185m	0	0	---
Magnesium	ppm	ASTM D5185m	<1	0	---
Calcium	ppm	ASTM D5185m	1	0	---
Phosphorus	ppm	ASTM D5185m	1021	1162	---
Zinc	ppm	ASTM D5185m	<1	0	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	0	0	---
Sodium	ppm	ASTM D5185m	0	0	---
Potassium	ppm	ASTM D5185m >20	<1	4	---
Water	%	ASTM D6304	0.003	0.003	---
ppm Water	ppm	ASTM D6304	25.2	30	---

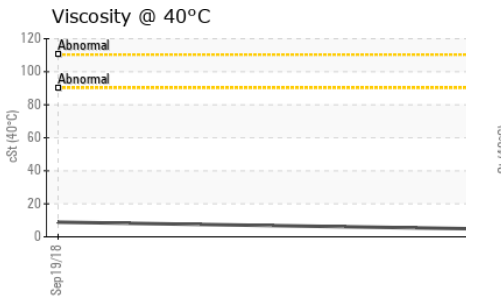
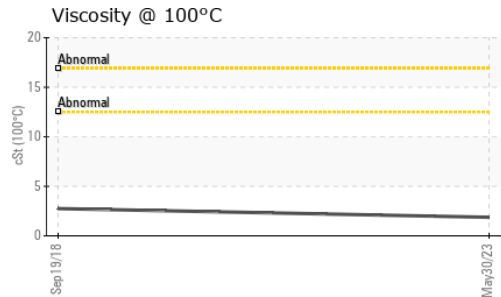
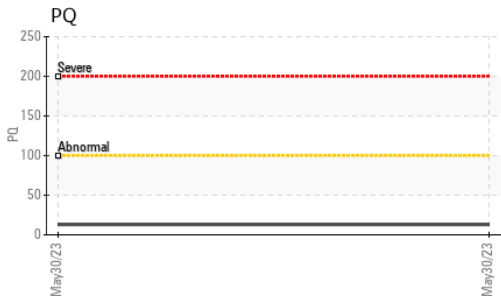
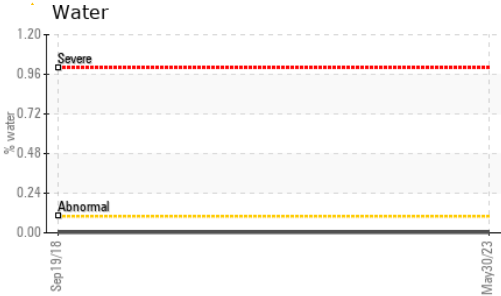
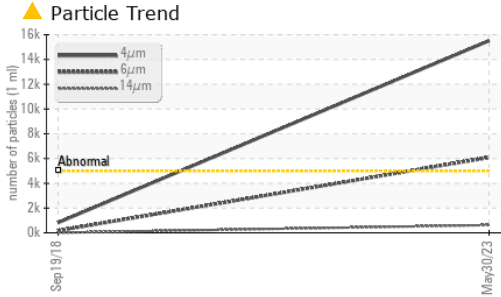
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 15517	822	---
Particles >6µm	ASTM D7647	>1300	▲ 6080	170	---
Particles >14µm	ASTM D7647	>160	▲ 623	5	---
Particles >21µm	ASTM D7647	>40	▲ 130	0	---
Particles >38µm	ASTM D7647	>10	7	0	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/20/16	17/15/10	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.129	0.213	---

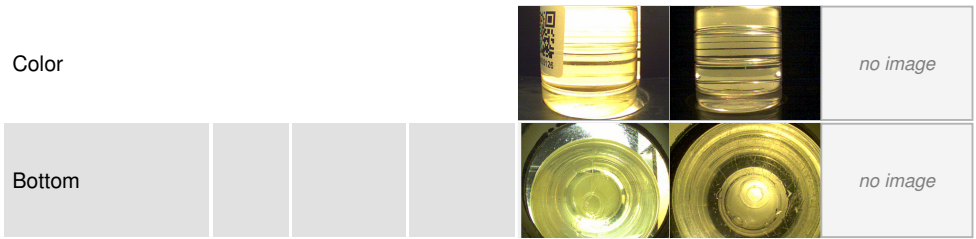
OIL ANALYSIS REPORT



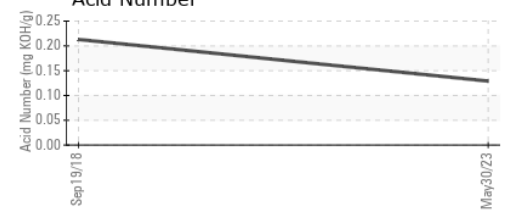
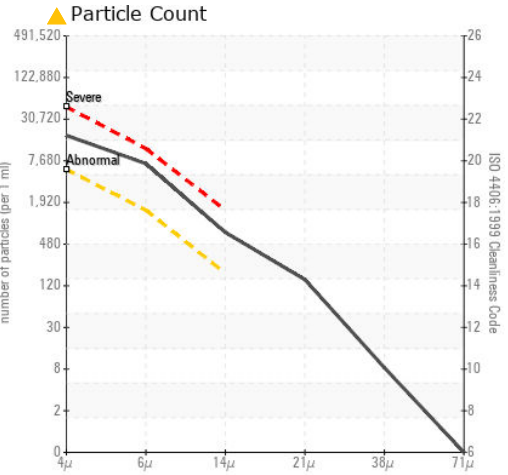
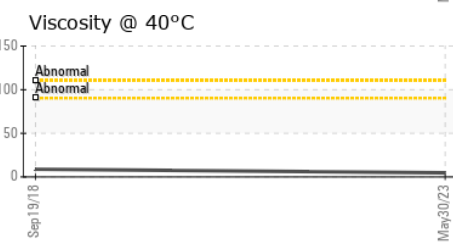
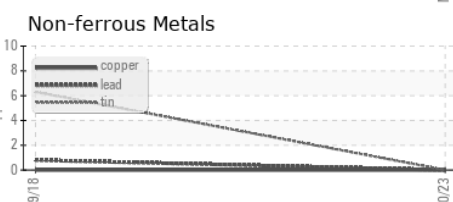
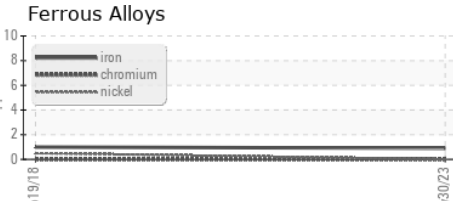
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	NEG	NEG	---
Free Water	scalar	*Visual	NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	4.71	8.88	---
Visc @ 100°C	cSt	ASTM D445	1.87	2.75	---
Viscosity Index (VI)	Scale	ASTM D2270	---	167	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0035126 **Received** : 31 May 2023
Lab Number : 05861128 **Diagnosed** : 05 Jun 2023
Unique Number : 10495593 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PQ, PrtCount, VI)

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 CALVERT, AL
 US 36513
 Contact: MARIO JOHNSON
 Mario.johnson@outokumpu.com
 T: (251)321-4105
 F: x:

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)