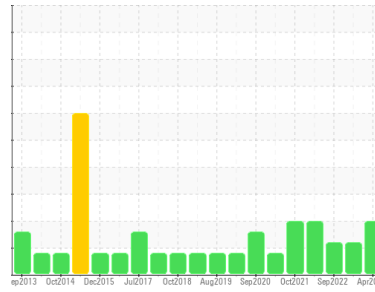


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area

LINE 7

Machine Id

[LINE 7] L7 WRAPPER 16 L7 WRAPPER 16

Component

Gearbox

Fluid

GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

The aluminum level is abnormal. All other component wear rates are normal.

Contamination

Appearance is milky. There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0122323	PCA0098848	PCA0078629
Sample Date	Client Info		23 Apr 2024	28 Jun 2023	20 Sep 2022
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		56	46	36
Iron	ppm	ASTM D5185m >200	56	58	48
Chromium	ppm	ASTM D5185m >15	2	1	1
Nickel	ppm	ASTM D5185m >15	<1	<1	0
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >25	▲ 384	▲ 407	▲ 120
Lead	ppm	ASTM D5185m >100	<1	<1	<1
Copper	ppm	ASTM D5185m >200	7	10	7
Tin	ppm	ASTM D5185m >25	1	<1	<1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	0	0	0
Barium	ppm	ASTM D5185m 15	21	25	21
Molybdenum	ppm	ASTM D5185m 15	<1	0	0
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m 50	11	12	12
Calcium	ppm	ASTM D5185m 50	5747	6498	5348
Phosphorus	ppm	ASTM D5185m 350	629	663	566
Zinc	ppm	ASTM D5185m 100	2393	2440	2153
Sulfur	ppm	ASTM D5185m 12500	2620	2480	2146

CONTAMINANTS

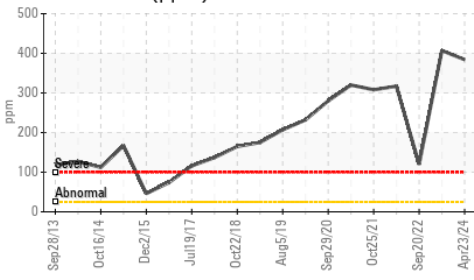
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	33	38	29
Sodium	ppm	ASTM D5185m	6	<1	3
Potassium	ppm	ASTM D5185m >20	3	4	0

FLUID DEGRADATION

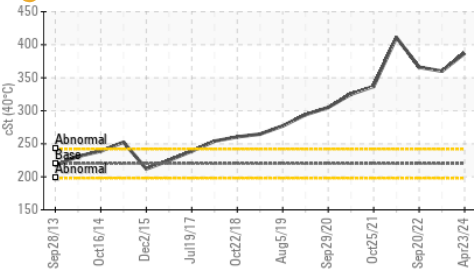
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.85	0.15	0.317	0.566

OIL ANALYSIS REPORT

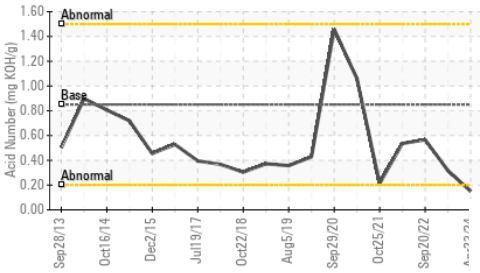
▲ Aluminum (ppm)



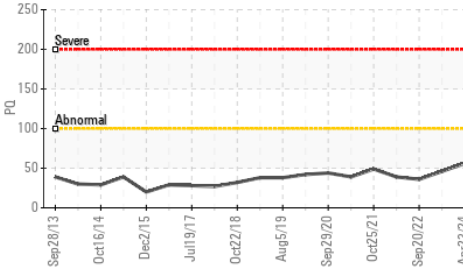
● Viscosity @ 40°C



Acid Number



PQ



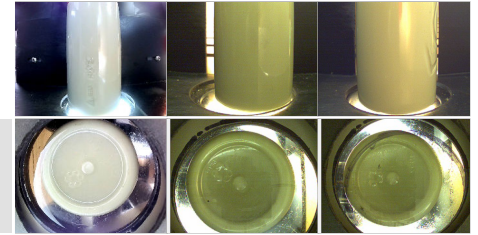
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	● MILKY	NORML
Odor	scalar	*Visual	NORML	● NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	● NEG	NEG
Free Water	scalar	*Visual		● NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	● 387	● 360

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

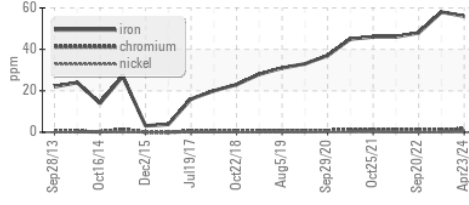
Color

Bottom

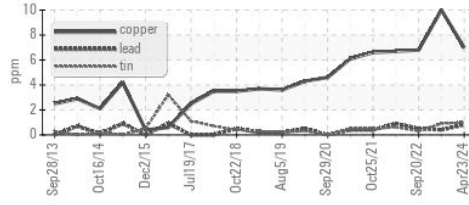


GRAPHS

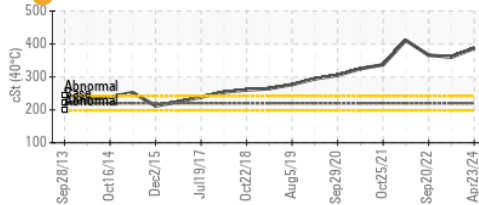
Ferrous Alloys



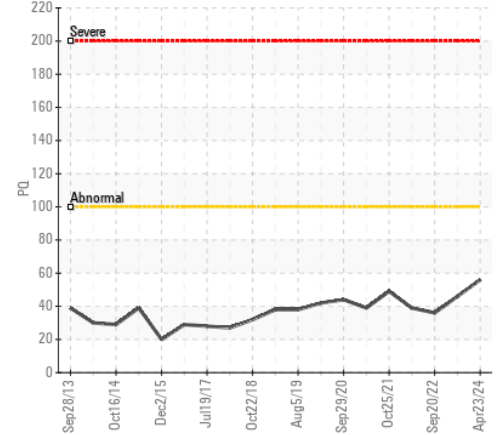
Non-ferrous Metals



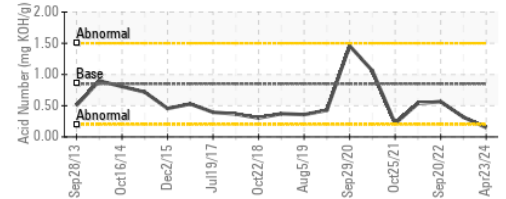
● Viscosity @ 40°C



PQ



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : PCA0122323

Lab Number : 06159274

Unique Number : 10994697

Test Package : IND 2 (Additional Tests: PQ)

Received : 24 Apr 2024

Tested : 25 Apr 2024

Diagnosed : 26 Apr 2024 - Jonathan Hester

THE HERSHEY COMPANY

WEST HERSHEY - TECHNICAL ASSURANCE, 1033 OLDE WEST CHOCOLATE

HERSHEY, PA

US 17033

Contact: CLINTON ZOHNER

clintzohner@hersheys.com

T: (717)374-4846

F: (717)374-4594

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)