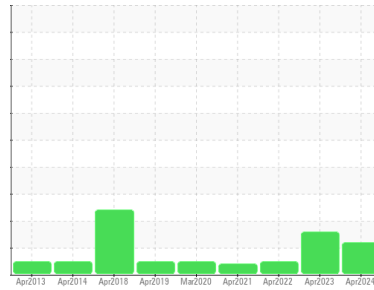




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
JOHNSON GEAR DRIVE P-4429
 Component
Gearbox
 Fluid
ROYAL PURPLE SYNFILM 68 (5 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 150 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		RP0035871	RP0028419	RP0018247
Sample Date	Client Info		17 Apr 2024	26 Apr 2023	10 Apr 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			ATTENTION	ABNORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	62	67	0
Chromium	ppm	ASTM D5185m >15	0	<1	0
Nickel	ppm	ASTM D5185m >15	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >25	2	2	0
Lead	ppm	ASTM D5185m >100	<1	0	2
Copper	ppm	ASTM D5185m >200	<1	0	1
Tin	ppm	ASTM D5185m >25	0	0	0
Antimony	ppm	ASTM D5185m >5	---	---	---
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	2	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0
Manganese	ppm	ASTM D5185m	4	3	<1
Magnesium	ppm	ASTM D5185m 90	1	3	32
Calcium	ppm	ASTM D5185m	17	6	4
Phosphorus	ppm	ASTM D5185m	170	170	<1
Zinc	ppm	ASTM D5185m	5	0	0

CONTAMINANTS

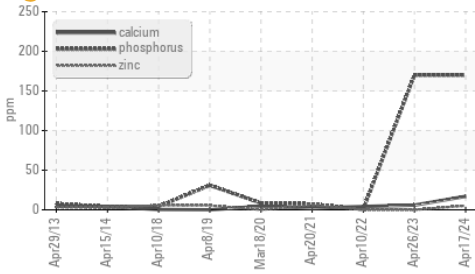
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	18	17	<1
Sodium	ppm	ASTM D5185m	11	8	0
Potassium	ppm	ASTM D5185m >20	2	0	<1
Water	%	ASTM D6304 >0.2	0.003	0.005	0.013
ppm Water	ppm	ASTM D6304 >2000	27	50.7	139.1

FLUID DEGRADATION

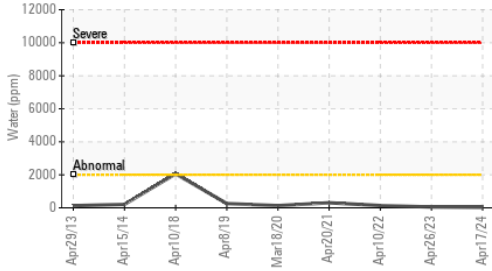
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.25	0.61	0.68	0.24

OIL ANALYSIS REPORT

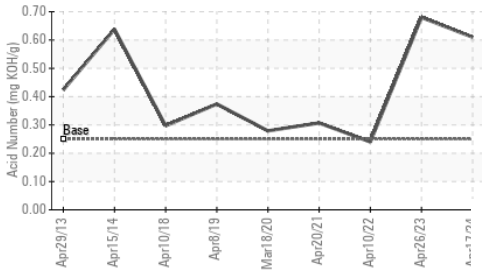
Additives



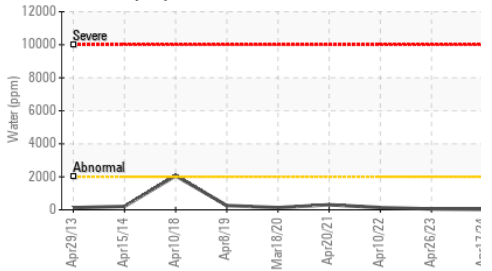
Water (KF)



Acid Number



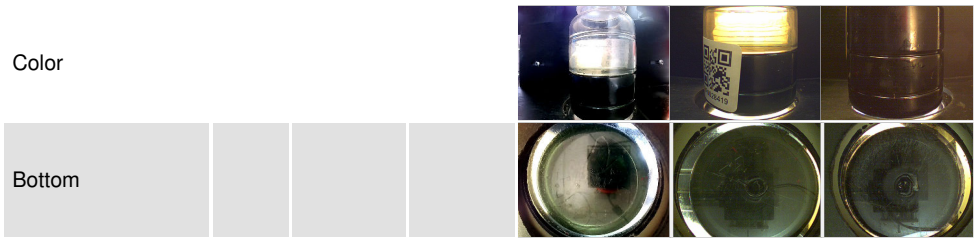
Water (KF)



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

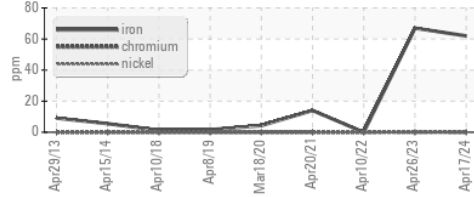
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	● 149	● 149

SAMPLE IMAGES	method	limit/base	current	history1	history2
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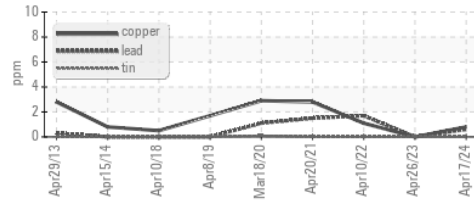


GRAPHS

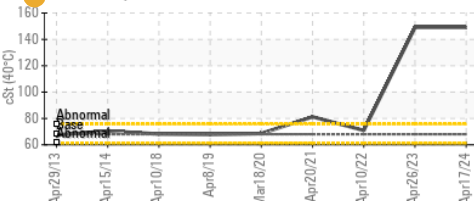
Ferrous Alloys



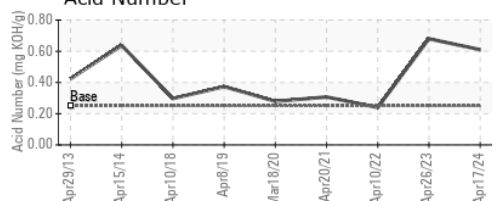
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0035871
Lab Number : 06153211
Unique Number : 10983289
Test Package : IND 2
Received : 18 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 22 Apr 2024 - Don Baldrige

SOLVAY
 7910 MT JOY RD
 MOUNT PLEASANT, TN
 US 38474
 Contact: JASON MILLER
 JASON.MILLER@syensqo.com
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 F: (931)379-1477

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)