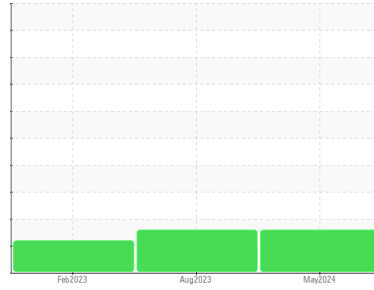




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

BM 1

Component

Gearbox

Fluid

GEAR OIL (PAO) ISO 150 (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component if applicable. 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		USP0011863	USP244708	USP241091
Sample Date	Client Info		15 May 2024	20 Aug 2023	28 Feb 2023
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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	49	59	39
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	<1	<1	0
Aluminum	ppm	ASTM D5185m >25	<1	0	2
Lead	ppm	ASTM D5185m >100	0	0	0
Copper	ppm	ASTM D5185m >200	2	0	<1
Tin	ppm	ASTM D5185m >25	0	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 25	20	24	29
Barium	ppm	ASTM D5185m 12	0	0	0
Molybdenum	ppm	ASTM D5185m 5	0	0	0
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m 25	0	2	<1
Calcium	ppm	ASTM D5185m 25	6	8	6
Phosphorus	ppm	ASTM D5185m 375	228	122	246
Zinc	ppm	ASTM D5185m 25	27	18	29
Sulfur	ppm	ASTM D5185m 4900	6550	7513	6499

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	13	14	13
Sodium	ppm	ASTM D5185m	1	0	0
Potassium	ppm	ASTM D5185m >20	0	0	0
Water	%	ASTM D6304 >0.2	0.006	0.00	0.014
ppm Water	ppm	ASTM D6304 >2000	70	0.00	143.5

FLUID CLEANLINESS

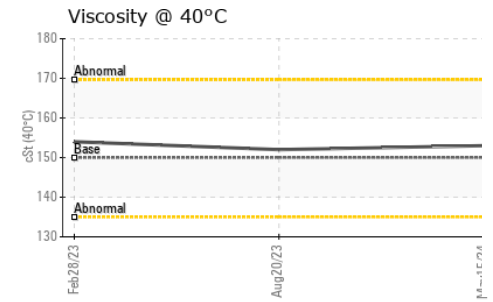
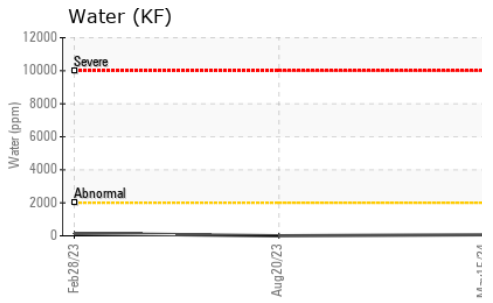
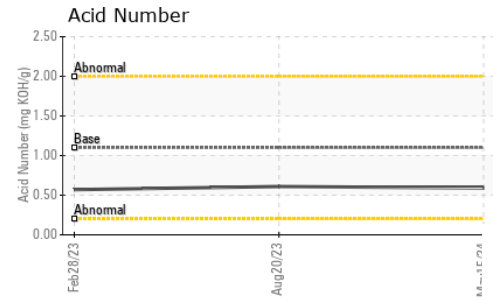
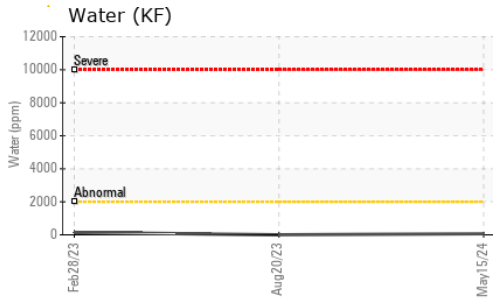
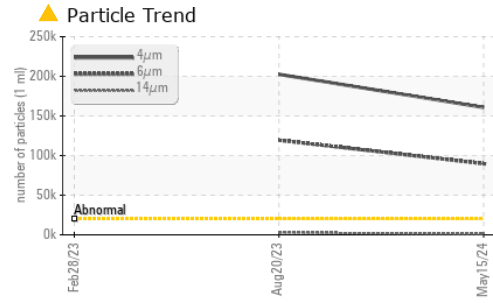
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 160772	▲ 202521	---
Particles >6µm	ASTM D7647	>5000	▲ 89811	▲ 119408	---
Particles >14µm	ASTM D7647	>640	▲ 804	▲ 2781	---
Particles >21µm	ASTM D7647	>160	20	158	---
Particles >38µm	ASTM D7647	>40	0	1	---
Particles >71µm	ASTM D7647	>10	0	0	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 25/24/17	▲ 25/24/19	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.10	0.59	0.61	0.57



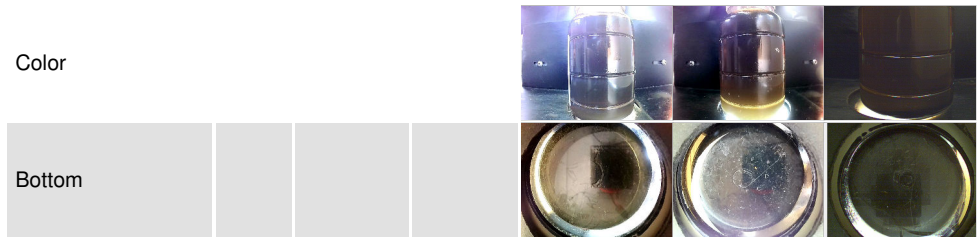
OIL ANALYSIS REPORT



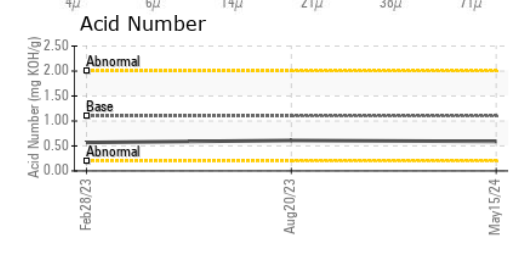
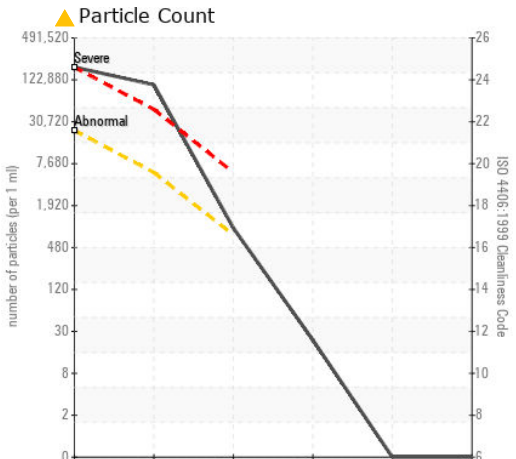
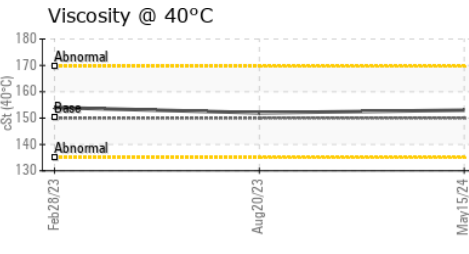
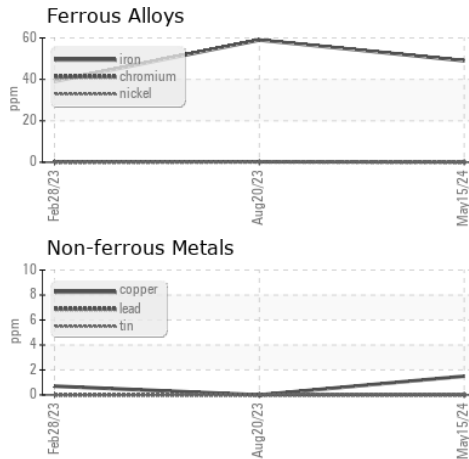
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	150	153	152	154

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0011863
Lab Number : 06181361
Unique Number : 11032687
Test Package : IND 2

KROGER/KING SOOPERS MEAT PLANT
 65 YUMA ST
 DENVER, CO
 US 80223

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: DEREK HENKOWSKI
 derek.henkowski@kingsoopers.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (303)778-3029

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (303)698-3479