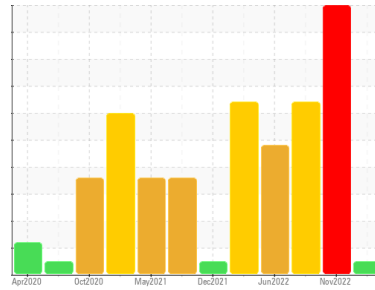


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
[97941506]
Machine Id
KR-GR-002930 - GRINDER A1 (EAST) (S/N GRIND A - 11513021)
Component
Gearbox
Fluid
GEAR OIL ISO 220 (6 QTS)

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

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0089554	PCA0081591	PCA0078676
Sample Date	Client Info	07 Feb 2023	08 Nov 2022	21 Jul 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	SEVERE	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	14	747	295
Chromium	ppm	ASTM D5185m >15	2	13	7
Nickel	ppm	ASTM D5185m >15	0	4	0
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	2	15	13
Lead	ppm	ASTM D5185m >100	0	6	1
Copper	ppm	ASTM D5185m >200	2	401	460
Tin	ppm	ASTM D5185m >25	<1	1	1
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 50	<1	24	0
Barium	ppm	ASTM D5185m 15	2	0	0
Molybdenum	ppm	ASTM D5185m 15	<1	101	105
Manganese	ppm	ASTM D5185m	<1	3	<1
Magnesium	ppm	ASTM D5185m 50	<1	2	0
Calcium	ppm	ASTM D5185m 50	2	21	2
Phosphorus	ppm	ASTM D5185m 350	324	534	650
Zinc	ppm	ASTM D5185m 100	4	264	268
Sulfur	ppm	ASTM D5185m 12500	1600	15721	18582

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	3	66	81
Sodium	ppm	ASTM D5185m	0	2	0
Potassium	ppm	ASTM D5185m >20	<1	1	0

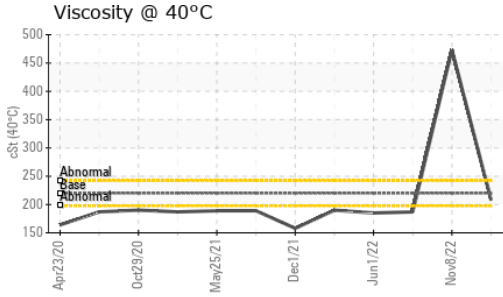
VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	MODER	MODER	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	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	NONE
Appearance	scalar	*Visual NORML	NORML	MILKY	NORML
Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual >0.2	NEG	0.2%	0.2%
Free Water	scalar	*Visual	NEG	1.0	1.0

FLUID PROPERTIES

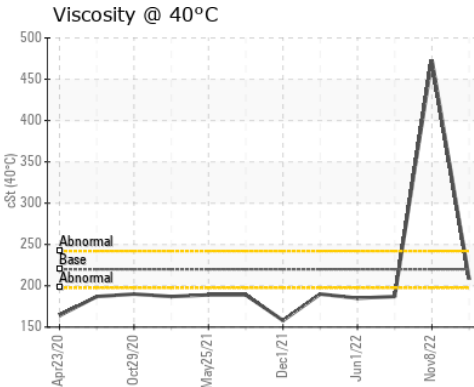
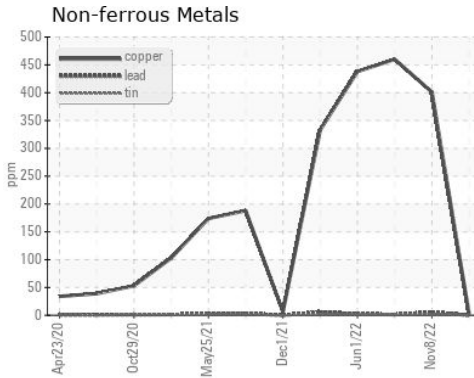
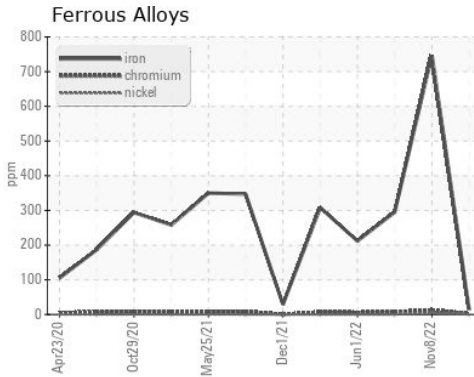
method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445 220	208	473.3	187

OIL ANALYSIS REPORT



SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0089554
Lab Number : 05773242
Unique Number : 10347859
Test Package : IND 1

Received : 21 Feb 2023
Diagnosed : 28 Feb 2023
Diagnostician : Doug Bogart

KraftHeinz - Kirksville - Plant 8333 PCA
 2504 INDUSTRIAL DR
 KIRKSVILLE, MO
 US 63501
 Contact: WALLACE WARD
 wallace.ward@kraftheinzcompany.com
 T: (660)627-1031
 F: (660)627-5887

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)