

OIL ANALYSIS REPORT

Sample Rating Trend

Area MIX ROOM E [99046670] KR-GR-003473 (S/N MIX E - 11535132)

Pump Fluid

SCHAEFFER 294 SUPREME GEAR LUBE ISO 320 (44 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. (Customer Sample Comment: 99046670)

Wear

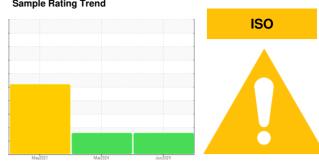
All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



Sample Date Client Info 13 Jun 2024 14 Mar 2024 16 May 2021 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Oil Changed Client Info Not Changd N/A N/A Sample Status Imathematic Mathematic ABNORMAL ABNORMAL SEVERE CONTAMINATION method Imit/base current history1 history2 Water WC Method >.1 NEG NEG NEG WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185m >5 <1 0 0 Nickel ppm ASTM D5185m >3 <1 0 0 Silver ppm ASTM D5185m >3 <1 <1 0 Copper ppm ASTM D5185m >3 <1 <1 0 Copper ppm	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info Not Changed N/A N/A Sample Status Client Info Not Changed N/A N/A N/A Sample Status Client Info Not Changed N/A N/A N/A CONTAMINATION method limit/base current history1 history2 Water WC Method >.1 NEG NEG NEG Wear METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >5 <1	Sample Number		Client Info		PCA0124758	PCA0120392	PCA0039020
Machine Age OIhrsClient InfoOOOOI Age OI ChangedYCClient InfoNot ChangdN/AN/ASample StatusIImit/baseABNORMALABNORMALSEVERECONTAMINATIONmethodimit/basecurrenthistory1history2WaterWC Method>.1NEGNEGNEGWEAR METALSmethodimit/basecurrenthistory1history2IronppmASTM D5185m>50<1			Client Info		13 Jun 2024	14 Mar 2024	16 May 2021
Oil Changed Sample Status Client Info Not Changd ABNORMAL N/A N/A Sample Status method limit/base current history1 history2 Water WC Method >.1 NEG NEG NEG Wetar WC Method >.1 NEG NEG NEG Wetar WC Method >.1 NEG NEG NEG Iron ppm ASTM D5185m >50 <1		hrs	Client Info		0	0	0
Sample Status Method Imit/base current ABNORMAL ABNORMAL SEVERE CONTAMINATION method limit/base current history1 history2 Water WC Method >.1 NEG NEG NEG Water ppm ASTM D5185m >90 8 2 15 Chromium ppm ASTM D5185m >5 <1	Oil Age	hrs	Client Info		0	0	0
CONTAMINATION method limit/base current history1 history2 Water WC Method >.1 NEG NEG NEG Wear METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >90 8 2 15 Chromium ppm ASTM 05185m >5 <1	Oil Changed		Client Info		Not Changd	N/A	N/A
Water WC Method >.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >90 8 2 15 Chromium ppm ASTM D5185m >5 <1	Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >90 8 2 15 Chromium ppm ASTM D5185m >5 <1 0 0 Nickel ppm ASTM D5185m >5 <1 0 0 Titanium ppm ASTM D5185m >3 <1 <1 <1 Silver ppm ASTM D5185m >3 <1 0 0 Aluminum ppm ASTM D5185m >3 <1 <1 0 Copper ppm ASTM D5185m >3 <1 <1 0 Attimony ppm ASTM D5185m >3 <1 <1 0 Attimony ppm ASTM D5185m <1 <1 <1 0 Cadmium ppm ASTM D5185m <1 <1 0 2 Barium ppm ASTM D5185m <1 0 <1	CONTAMINATIC	N	method	limit/base	current	history1	history2
Iron ppm ASTM D5185m >90 8 2 15 Chromium ppm ASTM D5185m >5 <1	Water		WC Method	>.1	NEG	NEG	NEG
Chromium ppm ASTM D5185m >5 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >5 <1 0 0 Titanium ppm ASTM D5185m >3 <1	Iron	ppm	ASTM D5185m	>90	8	2	15
Titanium ppm ASTM D5185m >3 <1 <1 <1 Silver ppm ASTM D5185m >3 <1	Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Silver ppm ASTM D5185m >3 <1 0 0 Aluminum ppm ASTM D5185m >7 2 3 <1	Nickel	ppm	ASTM D5185m	>5	<1	0	0
Aluminum ppm ASTM D5185m >7 2 3 <1 Lead ppm ASTM D5185m >12 <1	Titanium	ppm	ASTM D5185m	>3	<1	<1	<1
Lead ppm ASTM D5185m >12 <1 <1 0 Copper ppm ASTM D5185m >30 <1	Silver	ppm	ASTM D5185m	>3	<1	0	0
Copper prm ASTM D5185m >30 <1 <1 0 Tin ppm ASTM D5185m >9 <1	Aluminum	ppm	ASTM D5185m	>7	2	3	<1
Tin ppm ASTM D5185m >9 <1 <1 <1 <1 Antimony ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m <1 <1 0 Cadmium ppm ASTM D5185m <1 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 2 Barium ppm ASTM D5185m 0 <1 0 Molybdenum ppm ASTM D5185m 0 <1 0 Magnesium ppm ASTM D5185m 7 14 <1 Magnesium ppm ASTM D5185m <1 <1 <1 <1 Calcium ppm ASTM D5185m 532 842 367 Zinc ppm ASTM D5185m 532 842 367 Sulfur ppm ASTM D5185m 532 842 367 Sulfur ppm ASTM D5185m >60 10	Lead	ppm	ASTM D5185m	>12	<1	<1	0
Antimony ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>30	<1	<1	0
Vanadium ppm ASTM D5185m <1 <1 <1 0 Cadmium ppm ASTM D5185m <1 <1 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 2 Barium ppm ASTM D5185m 0 <11 0 Molybdenum ppm ASTM D5185m 0 <11 0 <11 0 Manganese ppm ASTM D5185m 7 14 <1 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <11 <td>Tin 🕴</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>9</td> <td><1</td> <td><1</td> <td><1</td>	Tin 🕴	ppm	ASTM D5185m	>9	<1	<1	<1
CadmiumppmASTM D5185m<1<10ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m002BariumppmASTM D5185m0<1	Antimony	ppm	ASTM D5185m				0
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m002BariumppmASTM D5185m0<1	Vanadium	ppm	ASTM D5185m		<1	<1	0
Boron ppm ASTM D5185m 0 0 2 Barium ppm ASTM D5185m 0 <1	Cadmium	ppm	ASTM D5185m		<1	<1	0
Barium ppm ASTM D5185m 0 <1 0 Molybdenum ppm ASTM D5185m 7 14 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 7 14 <1 Manganese ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m		0	0	2
Manganese ppm ASTM D5185m <1 0 <1 Magnesium ppm ASTM D5185m <1 <1 <1 <1 Calcium ppm ASTM D5185m 0 6 6 6 Phosphorus ppm ASTM D5185m 532 842 367 Zinc ppm ASTM D5185m 532 842 367 Zinc ppm ASTM D5185m 532 842 367 Sulfur ppm ASTM D5185m >60 10 3 20 Sodium ppm ASTM D5185m >60 10 3 20 Sodium ppm ASTM D5185m >20 1 1 0 FLUID CLEANLINESS method limit/base <td>Barium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td><1</td> <td>0</td>	Barium	ppm	ASTM D5185m		0	<1	0
Magnesium ppm ASTM D5185m <1	Molybdenum	ppm	ASTM D5185m		7	14	<1
Calcium ppm ASTM D5185m 0 6 6 Phosphorus ppm ASTM D5185m 532 842 367 Zinc ppm ASTM D5185m 8 4 0 Sulfur ppm ASTM D5185m 1127 1467 922 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >60 10 3 20 Sodium ppm ASTM D5185m >60 10 3 20 Sodium ppm ASTM D5185m >20 1 1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 104052 80594 Particles >6µm ASTM D7647 >2500 36971 17628	Manganese	ppm	ASTM D5185m		<1	0	<1
Phosphorus ppm ASTM D5185m 532 842 367 Zinc ppm ASTM D5185m 8 4 0 Sulfur ppm ASTM D5185m 1127 1467 922 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >60 10 3 20 Sodium ppm ASTM D5185m >60 10 3 20 Sodium ppm ASTM D5185m >20 1 1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 104052 80594 Particles >6µm ASTM D7647 >2500 36971 17628	Magnesium	ppm	ASTM D5185m		<1	<1	<1
Zinc ppm ASTM D5185m 8 4 0 Sulfur ppm ASTM D5185m 1127 1467 922 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >60 10 3 20 Sodium ppm ASTM D5185m >60 10 3 20 Sodium ppm ASTM D5185m >20 1 6 10 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 104052 80594 Particles >6µm ASTM D7647 >2500 36971 17628	Calcium	ppm	ASTM D5185m		0	6	6
Sulfur ppm ASTM D5185m 1127 1467 922 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >60 10 3 20 Sodium ppm ASTM D5185m >60 10 3 20 Sodium ppm ASTM D5185m >20 1 <1	Phosphorus	ppm	ASTM D5185m		532	842	367
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >60 10 3 20 Sodium ppm ASTM D5185m >60 10 3 20 Sodium ppm ASTM D5185m <1	Zinc	ppm	ASTM D5185m		8	4	0
Silicon ppm ASTM D5185m >60 10 3 20 Sodium ppm ASTM D5185m <1 <1 6 Potassium ppm ASTM D5185m >20 1 1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 104052 & 80594 Particles >6µm ASTM D7647 >2500 3 6971 17628	Sulfur	ppm	ASTM D5185m		1127	1467	922
Sodium ppm ASTM D5185m <1	CONTAMINANT	S	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 1 1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 104052 80594 Particles >6µm ASTM D7647 >2500 36971 17628	1	ppm	ASTM D5185m	>60	10	3	20
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >10000 104052 80594 Particles >6μm ASTM D7647 >2500 36971 17628		ppm	ASTM D5185m		<1	<1	6
Particles >4μm ASTM D7647 >10000 ▲ 104052 ▲ 80594 Particles >6μm ASTM D7647 >2500 ▲ 36971 ▲ 17628	Potassium	ppm	ASTM D5185m	>20	1	1	0
Particles >6μm ASTM D7647 >2500 ▲ 36971 ▲ 17628	FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>10000	A 104052	▲ 80594	
Particles >14μm ASTM D7647 >640 463 487			ASTM D7647	>2500	<u> </u>	17628	
	Particles >14µm		ASTM D7647	>640	463	487	

ASTM D7647 >160

ASTM D7647 >40

ASTM D7647 >10

ISO 4406 (c) >20/18/16 A 24/22/16

50

2

0

Particles >21µm

Particles >38µm

Particles >71µm

Oil Cleanliness

75

2

0

24/21/16



40

20 Abnor

0

0.70 0.60 (BHO) 0.50 Ê 0.40 은 0.30

0.20 Acid 0.10 0.00 /Jav

Acid Number

OIL ANALYSIS REPORT

FLUID DEGRADATION method

scalar

mg KOH/g ASTM D8045

scalar *Visual

method

*Visual

Acid Number (AN)

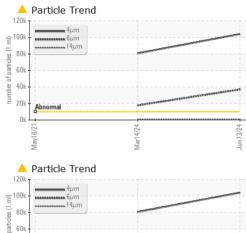
VISUAL

White Metal

Yellow Metal

Color

Bottom



/larl

	Precipitate	scalar	*Visual	NONE	NONE
Jun 13/24	Silt	scalar	*Visual	NONE	NONE
	Debris	scalar	*Visual	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML
	Emulsified Water	scalar	*Visual	>.1	NEG
	Free Water	scalar	*Visual		NEG
NIN ALE YA YA YA KAMA MA BABAA MA BABAA MA	FLUID PROPE	RTIES	method	limit/base	current
	Visc @ 40°C	cSt	ASTM D445	307.5	333
Jun13/24	SAMPLE IMAG	ES	method	limit/base	current
Jun					

history history2 current

history1

history1

0.64

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history1

NEG

NEG

439

history2

history2

A MODER

NONE

NONE

NONE

NONE

NORML

NORML

history2

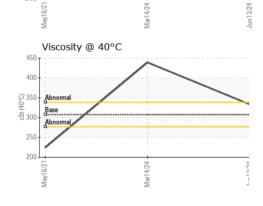
▲ 0.2%

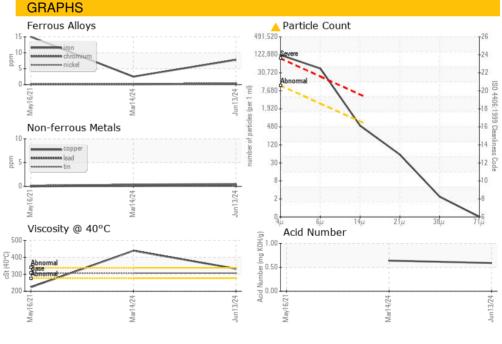
224

NEG

MODER







limit/base

limit/base

NONE

NONE

current

current

0.59

NONE

NONE

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 KraftHeinz - Kirksville - Plant 8333 PCA Sample No. : PCA0124758 Received : 18 Jun 2024 2504 INDUSTRIAL DR Lab Number : 06213449 Tested : 19 Jun 2024 KIRKSVILLE, MO Unique Number : 11086313 Diagnosed : 20 Jun 2024 - Don Baldridge US 63501 Test Package : IND 2 (Additional Tests: PrtCount) Contact: WALLACE WARD Certificate 12367 wallace.ward@kraftheinzcompany.com To discuss this sample report, contact Customer Service at 1-800-237-1369. T: (660)627-1031 * - 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) F: (660)627-5887

Report Id: KRAKIR [WUSCAR] 06213449 (Generated: 06/21/2024 11:46:58) Rev: 1

Submitted By: DAVID ROBINSON

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