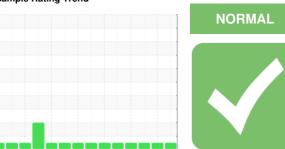


OIL ANALYSIS REPORT

Sample Rating Trend



Area

Grinding Room PUMPS 6 & 7 BARRELLIFT

Hydraulic System

MOBIL DTE 25 (60 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

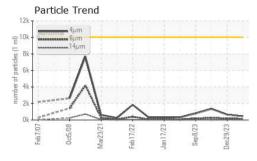
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

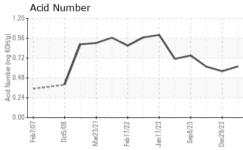
Sample Number Client Info PCA0118369 PCA0113540 PCA010358 PCA0118369 PCA0113540 PCA010358 PCA0118369 PCA0118369 PCA0118369 PCA010358 PCA			Feb 2007 0	ct2008 Mar2021 Feb	2022 Jan2023 Sep2023	Doc2023		
Client Info	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Date	Sample Number		Client Info		PCA0118369	PCA0113540	PCA0103583	
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 N/A Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method Imitibase current history1 history2 Wear WC Method >0.05 NEG NEG NEG WEAR METALS method Imitibase current history1 history2 Iron ppm ASTM 05185m >20 2 10 10 Chromium ppm ASTM 05185m >20 0 <1	•				30 May 2024	29 Dec 2023	25 Sep 2023	
Oil Age hrs Client Info N/A N/A N/A N/A Oil Changed Client Info N/A N/A N/A N/A N/A Sample Status Normal Normal Normal Normal Normal Normal Water WC Method 20 NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 2 10 10 Chromium ppm ASTM D5185m >20 0 <1 0 Chromium ppm ASTM D5185m >20 0 <1 0 Chromium ppm ASTM D5185m >20 0 <1 0 Chromium ppm ASTM D5185m >20 0 <1 1 Silver ppm ASTM D5185m >20 0 <1 <1 Lead ppm ASTM D5185m >20 </td <td></td> <td>hrs</td> <td></td> <td></td> <td>•</td> <td></td> <td></td>		hrs			•			
Oil Changed Sample Status							_	
CONTAMINATION method imit/base current history1 history2	•	1110			-		-	
CONTAMINATION method limit/base current history1 history2						,	,	
Water WC Method >0.05 NEG NEG NEG WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185m >20 2 10 10 Chromium ppm ASTM D5185m >20 0 <1 0 Nickel ppm ASTM D5185m >20 0 <1 0 Silver ppm ASTM D5185m 0 <1 0 0 Aluminum ppm ASTM D5185m >20 <1 2 0 Aluminum ppm ASTM D5185m >20 0 <1 <1 Lead ppm ASTM D5185m >20 0 <1 <1 Copper ppm ASTM D5185m >20 0 <1 <1 Vanadium ppm ASTM D5185m 0 0 <1 <1 Vanadium ppm ASTM D5185m 0 0 <0 <0<	<u>'</u>	ION	method	limit/base		history1		
Irron	Water	1011						
Irron	WEAR METAL	.S	method	limit/base	current	history1	history2	
Chromium ppm ASTM D5185m ≥20 0 <1 0 Nickel ppm ASTM D5185m >20 0 <1 0 Titanium ppm ASTM D5185m >20 0 <1 0 Silver ppm ASTM D5185m >20 <1 2 0 Aluminum ppm ASTM D5185m >20 0 <1 <1 0 Lead ppm ASTM D5185m >20 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 </td <td></td> <td></td> <td></td> <td>>20</td> <td>2</td> <td></td> <td></td>				>20	2			
Nickel	•							
Titanium					_			
Silver				>20	-			
Aluminum ppm ASTM D5185m >20 <1 2 0 Lead ppm ASTM D5185m >20 0 <1					-			
Lead ppm ASTM D5185m >20 0 <1 <1 Copper ppm ASTM D5185m >20 11 19 18 Tin ppm ASTM D5185m >20 0 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 10 0 0 Barium ppm ASTM D5185m 0 10 0 0 1 0 Magnesium ppm ASTM D5185m 0 0 <1 <1 2 2 2 Mangnesium ppm ASTM D5185m 0 <1 <1 <1 <1 <1 <1 <				00	-			
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Barium ppm ASTM D5185m 0 10 0 Molybdenum ppm ASTM D5185m <1	ADDITIVES		method	limit/base	current	history1	history2	
Molybdenum ppm ASTM D5185m <1 2 2 Manganese ppm ASTM D5185m 0 0 <1 <1 Magnesium ppm ASTM D5185m 0 <1 <1 <1 Calcium ppm ASTM D5185m 70 78 75 Phosphorus ppm ASTM D5185m 341 411 342 Zinc ppm ASTM D5185m 502 527 527 Sulfur ppm ASTM D5185m 1280 1669 1630 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1 <1 Sodium ppm ASTM D5185m 6 3 6 Potassium ppm ASTM D5185m 20 4 10 10 FLUID CLEANLINESS method limit/base current history1 history2 Particles > 4µm <td>Boron</td> <td>ppm</td> <td></td> <td></td> <td>-</td> <td></td> <td></td>	Boron	ppm			-			
Manganese ppm ASTM D5185m 0 <1 <1 Magnesium ppm ASTM D5185m 0 <1	<td>Barium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td>10</td> <td>0</td>	Barium	ppm	ASTM D5185m		0	10	0
Magnesium ppm ASTM D5185m 0 <1 <1 Calcium ppm ASTM D5185m 70 78 75 Phosphorus ppm ASTM D5185m 341 411 342 Zinc ppm ASTM D5185m 502 527 527 Sulfur ppm ASTM D5185m 1280 1669 1630 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1	Molybdenum	ppm	ASTM D5185m				2	
Calcium ppm ASTM D5185m 70 78 75 Phosphorus ppm ASTM D5185m 341 411 342 Zinc ppm ASTM D5185m 502 527 527 Sulfur ppm ASTM D5185m 1280 1669 1630 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1	Manganese	ppm	ASTM D5185m		0	0	<1	
Phosphorus ppm ASTM D5185m 341 411 342 Zinc ppm ASTM D5185m 502 527 527 Sulfur ppm ASTM D5185m 1280 1669 1630 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 5 0 <1	Magnesium	ppm	ASTM D5185m		0	<1	<1	
Zinc ppm ASTM D5185m 502 527 527 Sulfur ppm ASTM D5185m 1280 1669 1630 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1	Calcium	ppm	ASTM D5185m		70	78	75	
Sulfur ppm ASTM D5185m 1280 1669 1630 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1	Phosphorus	ppm	ASTM D5185m		341	411	342	
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1	Zinc	ppm	ASTM D5185m		502	527	527	
Silicon ppm ASTM D5185m >15 0 <1 <1 Sodium ppm ASTM D5185m 6 3 6 Potassium ppm ASTM D5185m >20 4 10 10 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >10000 443 645 1347 Particles >6μm ASTM D7647 >2500 120 187 239 Particles >14μm ASTM D7647 >640 11 17 12 Particles >21μm ASTM D7647 >160 4 4 3 Particles >38μm ASTM D7647 >40 1 1 0 Particles >71μm ASTM D7647 >10 0 1 0 Oil Cleanliness ISO 4406 (c) >20/18/16 16/14/11 17/15/11 18/15/11	Sulfur	ppm	ASTM D5185m		1280	1669	1630	
Sodium ppm ASTM D5185m 6 3 6 Potassium ppm ASTM D5185m >20 4 10 10 FLUID CLEANLINESS method limit/base current bistory1 history2 Particles >4μm ASTM D7647 >10000 443 645 1347 Particles >6μm ASTM D7647 >2500 120 187 239 Particles >14μm ASTM D7647 >640 11 17 12 Particles >21μm ASTM D7647 >160 4 4 3 Particles >38μm ASTM D7647 >40 1 1 0 Particles >71μm ASTM D7647 >10 0 1 0 Oil Cleanliness ISO 4406 (c) >20/18/16 16/14/11 17/15/11 18/15/11	CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Potassium ppm ASTM D5185m >20 4 10 10 FLUID CLEANLINESS method limit/base current bistory1 history2 Particles >4μm ASTM D7647 >10000 443 645 1347 Particles >6μm ASTM D7647 >2500 120 187 239 Particles >14μm ASTM D7647 >640 11 17 12 Particles >21μm ASTM D7647 >160 4 4 3 Particles >38μm ASTM D7647 >40 1 1 0 Particles >71μm ASTM D7647 >10 0 1 0 Oil Cleanliness ISO 4406 (c) >20/18/16 16/14/11 17/15/11 18/15/11	Silicon	ppm	ASTM D5185m	>15	0	<1	<1	
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >10000 443 645 1347 Particles >6μm ASTM D7647 >2500 120 187 239 Particles >14μm ASTM D7647 >640 11 17 12 Particles >21μm ASTM D7647 >160 4 4 3 Particles >38μm ASTM D7647 >40 1 1 0 Particles >71μm ASTM D7647 >10 0 1 0 Oil Cleanliness ISO 4406 (c) >20/18/16 16/14/11 17/15/11 18/15/11	Sodium	ppm	ASTM D5185m		6	3	6	
Particles >4μm ASTM D7647 >10000 443 645 1347 Particles >6μm ASTM D7647 >2500 120 187 239 Particles >14μm ASTM D7647 >640 11 17 12 Particles >21μm ASTM D7647 >160 4 4 3 Particles >38μm ASTM D7647 >40 1 1 0 Particles >71μm ASTM D7647 >10 0 1 0 Oil Cleanliness ISO 4406 (c) >20/18/16 16/14/11 17/15/11 18/15/11	Potassium	ppm	ASTM D5185m	>20	4	10	10	
Particles >6μm ASTM D7647 >2500 120 187 239 Particles >14μm ASTM D7647 >640 11 17 12 Particles >21μm ASTM D7647 >160 4 4 3 Particles >38μm ASTM D7647 >40 1 1 0 Particles >71μm ASTM D7647 >10 0 1 0 Oil Cleanliness ISO 4406 (c) >20/18/16 16/14/11 17/15/11 18/15/11	FLUID CLEAN	LINESS	method	limit/base	current	history1	history2	
Particles >14μm ASTM D7647 >640 11 17 12 Particles >21μm ASTM D7647 >160 4 4 3 Particles >38μm ASTM D7647 >40 1 1 0 Particles >71μm ASTM D7647 >10 0 1 0 Oil Cleanliness ISO 4406 (c) >20/18/16 16/14/11 17/15/11 18/15/11	Particles >4µm		ASTM D7647	>10000	443	645	1347	
Particles >21μm ASTM D7647 >160 4 4 3 Particles >38μm ASTM D7647 >40 1 1 0 Particles >71μm ASTM D7647 >10 0 1 0 Oil Cleanliness ISO 4406 (c) >20/18/16 16/14/11 17/15/11 18/15/11	Particles >6µm		ASTM D7647	>2500	120	187	239	
Particles >38μm ASTM D7647 >40 1 1 0 Particles >71μm ASTM D7647 >10 0 1 0 Oil Cleanliness ISO 4406 (c) >20/18/16 16/14/11 17/15/11 18/15/11	Particles >14µm		ASTM D7647	>640	11	17	12	
Particles >38μm ASTM D7647 >40 1 1 0 Particles >71μm ASTM D7647 >10 0 1 0 Oil Cleanliness ISO 4406 (c) >20/18/16 16/14/11 17/15/11 18/15/11	Particles >21µm		ASTM D7647	>160	4	4	3	
Particles >71μm ASTM D7647 >10 0 1 0 Oil Cleanliness ISO 4406 (c) >20/18/16 16/14/11 17/15/11 18/15/11	•		ASTM D7647	>40	1	1	0	
Oil Cleanliness ISO 4406 (c) >20/18/16 16/14/11 17/15/11 18/15/11	Particles >71μm		ASTM D7647	>10	0	1	0	
FLUID DEGRADATION method limit/base current history1 history2	Oil Cleanliness			>20/18/16	16/14/11	17/15/11	18/15/11	
	FLUID DEGRA	DATION	method	limit/base	current	history1	historv2	

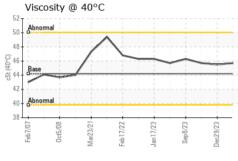
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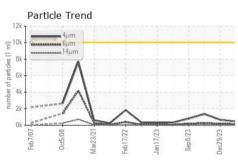


OIL ANALYSIS REPORT









VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

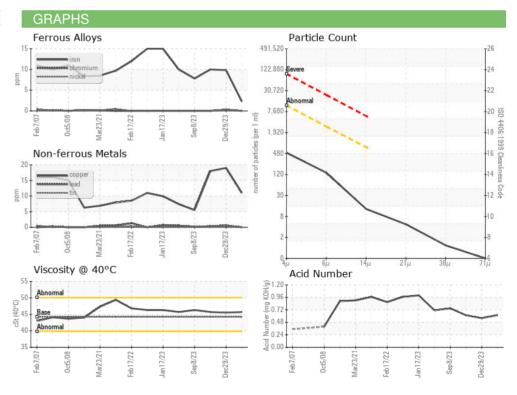
I LOID I NOI L	ITTLO					
Visc @ 40°C	cSt	ASTM D445	44.2	45.7	45.5	45.7

SAMPLE IMAGES

Color

Bottom









Laboratory Sample No.

Lab Number : 06197585 Unique Number : 11059708

: PCA0118369

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jun 2024 **Tested** : 04 Jun 2024

Diagnosed : 04 Jun 2024 - Don Baldridge

Test Package : IND 2 Certificate 12367 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.

KraftHeinz - New Ulm - Plant 8302

2525 S BRIDGE STREET NEW ULM, MN US 56073

Contact: RYAN SCHMID ryan.schmid@kraftheinz.com

T: (507)568-0338 F: (507)354-7927

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