

PROBLEM SUMMARY

Sample Rating Trend

ISO

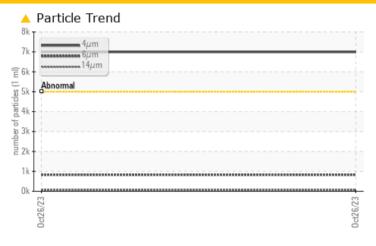
AF12-130-1495-4000 FLAKER 4 HYDRAULIC UNIT

Component

Hydraulic System

MOBIL DTE 10 EXCEL 46 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC T	EST RESULTS			
Sample Status			ATTENTION	
Particles >4µm	ASTM D7647	>5000	△ 6992	
Oil Cleanliness	ISO 4406 (c)	\19/17/14	A 20/17/13	

Customer Id: ARAGRAUS Sample No.: WC0824134 Lab Number: 05996702 Test Package: PLANT To manage this report scan the QR code To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED AC	CTIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

ISO

A

Machine Id

AF12-130-1495-4000 FLAKER 4 HYDRAULIC UNIT

Component

Hydraulic System

MOBIL DTE 10 EXCEL 46 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Fluid Condition

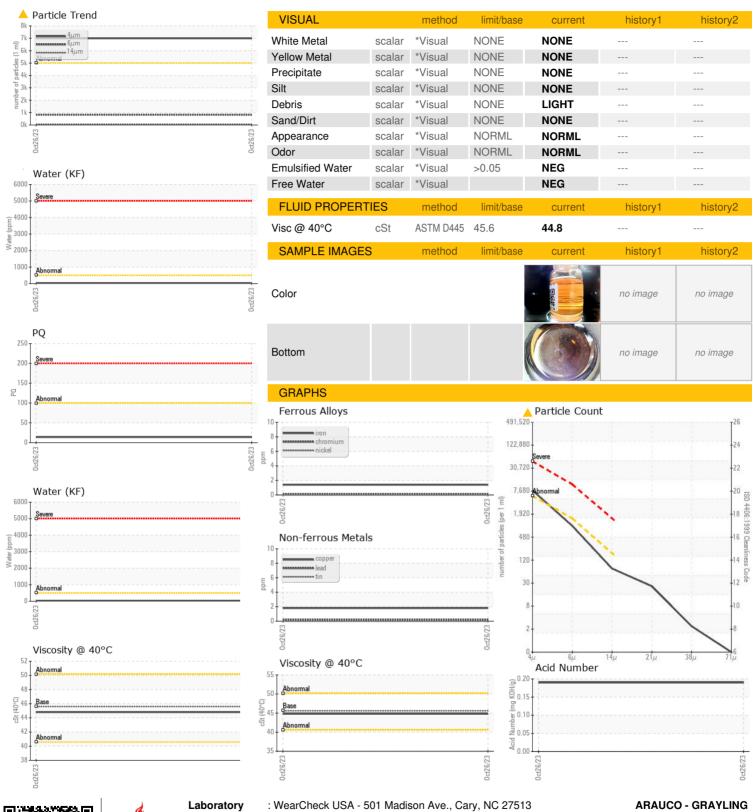
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

PQ							
SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info WC0824134 Sample Date Client Info 66 Oil Age mths Client Info 6 Oil Changed Client Info N/A Sample Status method limit/base current history1 VEAR METALS method limit/base current history1 history2 PQ ASTM D8185m 20 1 Hron ppm ASTM D8185m 20 1 Hron ppm ASTM D8185m 20 1 Hron ppm ASTM D8185m 20 0 Hron ppm ASTM D8185m 0 Silver ppm ASTM D8185m 20 2 Aluminum ppm					0.4000		
Sample Number	CAMPLE INFORM	AATIONI	ام مالم میر	line it /le e e e		la la La mud	la i a ta un c
Client Info Client Info G6		IATION		IIIIII/base		nistory i	nistory2
Machine Age mths	'						
Oil Age mths Client Info 6	•						
Cilient Info N/A							
ATTENTION WEAR METALS method limit/base current history1 history2 PQ ASTM D8184 14 Iron ppm ASTM D5185m >20 1 Chromium ppm ASTM D5185m >20 1 Nickel ppm ASTM D5185m >20 0 Nickel ppm ASTM D5185m >20 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >20 <1	-	mths			-		
WEAR METALS method limit/base current history1 history2 PQ ASTM D8184 14 Iron ppm ASTM D6185n >20 1 Chromium ppm ASTM D6185n >20 <1			Client Info				
PQ ASTM D8184 14 Iron ppm ASTM D5185m >20 1 Nickel ppm ASTM D5185m >20 0 Titanium ppm ASTM D5185m >20 0 Sliver ppm ASTM D5185m >20 <1	Sample Status				ATTENTION		
ASTM D5185m >20	WEAR METALS		method	limit/base	current	history1	history2
Chromium ppm ASTM D5185m >20 <1 Nickel ppm ASTM D5185m >20 0 Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m >20 <1	PQ		ASTM D8184		14		
Nickel ppm ASTM D5185m >20 0	Iron	ppm	ASTM D5185m	>20	1		
Titanium ppm ASTM D5185m 0	Chromium	ppm	ASTM D5185m	>20	<1		
Silver	Nickel	ppm	ASTM D5185m	>20	0		
Aluminum ppm ASTM D5185m >20 <1	Titanium	ppm	ASTM D5185m		0		
Lead ppm ASTM D5185m >20 <1 Copper ppm ASTM D5185m >20 2 Tin ppm ASTM D5185m >20 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Manganesium ppm ASTM D5185m 96 Calcium ppm ASTM D5185m 349 Phosphorus ppm ASTM D5185m 349 Zinc ppm ASTM D5185m 1825	Silver	ppm	ASTM D5185m		0		
Copper ppm ASTM D5185m >20 2 Tin ppm ASTM D5185m >20 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 96 Phosphorus ppm ASTM D5185m 349 Zinc ppm ASTM D5185m 110 Sulfur ppm ASTM D5185m >15 2 <t< td=""><td>Aluminum</td><td>ppm</td><td>ASTM D5185m</td><td>>20</td><td><1</td><td></td><td></td></t<>	Aluminum	ppm	ASTM D5185m	>20	<1		
Tin	Lead	ppm	ASTM D5185m	>20	<1		
Vanadium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 96 Calcium ppm ASTM D5185m 96 Phosphorus ppm ASTM D5185m 349 Zinc ppm ASTM D5185m 349 Zinc ppm ASTM D5185m 110 Sulfur ppm ASTM D5185m 1825 CONTAMINANTS method limit/base current history1	Copper	ppm	ASTM D5185m	>20	2		
Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 96 Calcium ppm ASTM D5185m 96 Phosphorus ppm ASTM D5185m 349 Zinc ppm ASTM D5185m 110 Zinc ppm ASTM D5185m 1825 Sulfur ppm ASTM D5185m 2 Sodium ppm ASTM D5185m 0	Tin	ppm	ASTM D5185m	>20	0		
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Mangaese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 96 Calcium ppm ASTM D5185m 96 Phosphorus ppm ASTM D5185m 349 Zinc ppm ASTM D5185m 110 Sulfur ppm ASTM D5185m 1825 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >15 2 Sodium ppm ASTM D5185m >0	Vanadium	ppm	ASTM D5185m		0		
Boron ppm ASTM D5185m 0	Cadmium	ppm	ASTM D5185m		0		
Barium ppm ASTM D5185m 0	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0	Boron	ppm	ASTM D5185m		0		
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		0		
Magnesium ppm ASTM D5185m <1	Molybdenum	ppm	ASTM D5185m		0		
Magnesium ppm ASTM D5185m <1	•	ppm	ASTM D5185m		0		
Phosphorus ppm ASTM D5185m 349 Zinc ppm ASTM D5185m 110 Sulfur ppm ASTM D5185m 1825 CONTAMINANTS method limit/base current history1 history3 Silicon ppm ASTM D5185m >15 2 Sodium ppm ASTM D5185m >0 Potassium ppm ASTM D5185m >20 2 Water % ASTM D6304 >0.05 0.003 Ppm ASTM D6304 >500 35.2 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 >5000 6992 Particles >14µm ASTM D7647 >160 64 Particles >21µm <td>-</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td><1</td> <td></td> <td></td>	-	ppm	ASTM D5185m		<1		
Zinc ppm ASTM D5185m 110 Sulfur ppm ASTM D5185m 1825 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 2 Water % ASTM D5185m >20 2 Water % ASTM D5185m >20 2 Water % ASTM D5185m >20 2 Published Potassium ppm ASTM D5185m >0 0 Water % ASTM D5185m >0 0 0 Particles >4µm ASTM D7647 >10 2	Calcium	ppm	ASTM D5185m		96		
Zinc ppm ASTM D5185m 110 Sulfur ppm ASTM D5185m 1825 CONTAMINANTS method limit/base current history1 history3 Silicon ppm ASTM D5185m >15 2 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 2 Water % ASTM D6304 >0.05 0.003 FLUID CLEANLINESS method limit/base current history1	Phosphorus		ASTM D5185m		349		
Sulfur ppm ASTM D5185m 1825 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 2 Water % ASTM D6304 >0.00 35.2 FLUID CLEANLINESS method limit/base current history1<			ASTM D5185m		110		
Solicon ppm ASTM D5185m >15 2	Sulfur		ASTM D5185m		1825		
Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 2 Water % ASTM D6304 >0.05 0.003 ppm Water ppm ASTM D6304 >500 35.2 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4μm ASTM D7647 >5000 6992 Particles >6μm ASTM D7647 >1300 829 Particles >14μm ASTM D7647 >160 64 Particles >21μm ASTM D7647 >40 22 Particles >38μm ASTM D7647 >3 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 20/17/13	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 Water % ASTM D6304 >0.05 0.003 ppm Water ppm ASTM D6304 >500 35.2 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4μm ASTM D7647 >5000 6992 Particles >6μm ASTM D7647 >1300 829 Particles >14μm ASTM D7647 >160 64 Particles >21μm ASTM D7647 >40 22 Particles >38μm ASTM D7647 >3 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 20/17/13	Silicon	ppm	ASTM D5185m	>15	2		
Water % ASTM D6304 >0.05 0.003 ppm Water ppm ASTM D6304 >500 35.2 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4μm ASTM D7647 >5000 6992 Particles >6μm ASTM D7647 >1300 829 Particles >14μm ASTM D7647 >160 64 Particles >21μm ASTM D7647 >40 22 Particles >38μm ASTM D7647 >10 2 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 20/17/13	Sodium	ppm	ASTM D5185m		0		
PERIOD CLEANLINESS method limit/base current history1 history1 Particles >4μm ASTM D7647 >5000 ▲ 6992 Particles >6μm ASTM D7647 >1300 829 Particles >14μm ASTM D7647 >160 64 Particles >21μm ASTM D7647 >40 22 Particles >38μm ASTM D7647 >10 2 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 20/17/13	Potassium	ppm	ASTM D5185m	>20	2		
FLUID CLEANLINESS method limit/base current history1 history3 Particles >4μm ASTM D7647 >5000 ▲ 6992 Particles >6μm ASTM D7647 >1300 829 Particles >14μm ASTM D7647 >160 64 Particles >21μm ASTM D7647 >40 22 Particles >38μm ASTM D7647 >10 2 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 20/17/13	Water	%	ASTM D6304	>0.05	0.003		
Particles >4μm ASTM D7647 >5000 ▲ 6992 Particles >6μm ASTM D7647 >1300 829 Particles >14μm ASTM D7647 >160 64 Particles >21μm ASTM D7647 >40 22 Particles >38μm ASTM D7647 >10 2 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 20/17/13	ppm Water	ppm	ASTM D6304	>500	35.2		
Particles >6μm ASTM D7647 >1300 829 Particles >14μm ASTM D7647 >160 64 Particles >21μm ASTM D7647 >40 22 Particles >38μm ASTM D7647 >10 2 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 20/17/13	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >14μm ASTM D7647 >160 64 Particles >21μm ASTM D7647 >40 22 Particles >38μm ASTM D7647 >10 2 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 20/17/13	Particles >4µm		ASTM D7647	>5000	△ 6992		
Particles >21μm ASTM D7647 >40 22 Particles >38μm ASTM D7647 >10 2 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 20/17/13	Particles >6µm		ASTM D7647	>1300	829		
Particles >38μm ASTM D7647 >10 2 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 Δ 20/17/13	Particles >14µm		ASTM D7647	>160	64		
Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 20/17/13	Particles >21µm		ASTM D7647	>40	22		
Oil Cleanliness ISO 4406 (c) >19/17/14 20/17/13	Particles >38µm		ASTM D7647	>10	2		
	Particles >71µm		ASTM D7647	>3	0		
FLUID DEGRADATION method limit/base current history1 history5	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/17/13		
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2

0.19



OIL ANALYSIS REPORT





Certificate L2367

Sample No. Lab Number **Unique Number**

: WC0824134 : 05996702 : 10725062 Test Package : PLANT

: 02 Nov 2023 Received Diagnosed : 03 Nov 2023

: Wes Davis Diagnostician

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) 5851 ARAUCO ROAD GRAYLING, MI

US 49738 Contact: JOSEPH GREEN

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