

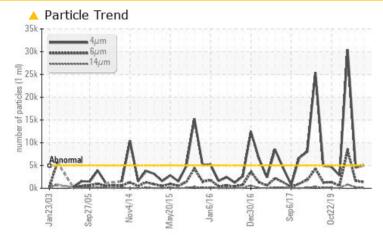
PROBLEM SUMMARY

Area 3 Machine Id 03-2050-040-000 FACE REFINER GENERAL LUBE (3A2M1B)

Component 3 Hydraulic System Fluid

SHELL TELLUS S2 MX 32 (650 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status			ATTENTION	ATTENTION	ABNORMAL			
Particles >4µm	ASTM D7647	>5000	<u> </u>	4551	▲ 30427			
Particles >6µm	ASTM D7647	>1300	<u> </u>	🔺 1617	A 8385			
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>	1 9/18/15	<u> </u>			

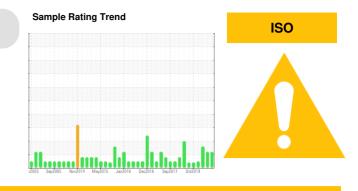
Customer Id: MACPEM Sample No.: WC0855135 Lab Number: 02602304 Test Package: IND 2



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: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com



RECOMMENDED AC	TIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS



10 Feb 2022 Diag: Wes Davis

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

24 Jun 2021 Diag: Kevin Marson



We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.All component wear rates are normal. Particles >14 μ m are abnormally high. Particles >21 μ m are abnormally high. Particles >4 μ m are abnormally high. Particles >6 μ m are abnormally high. The oil viscosity is higher than normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

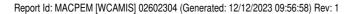
NORMAL



08 Apr 2020 Diag: Kevin Marson

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The oil viscosity is higher than normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







OIL ANALYSIS REPORT



3 Hydraulic System Flui SHELL TELLUS S2 MX 32 (650 GAL)

DIAGNOSIS

Area 3 Machine Id

Component

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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

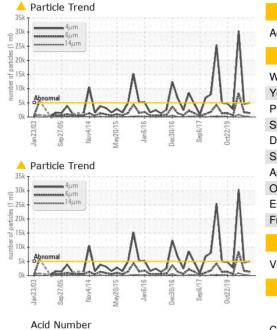
N method Client Info Client Info Client Info Client Info Client Info Client Info Client Info Client Info VC Method WC Method Mathematical Stress Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base >20 >20 >20 >20 >20	current WC0855135 07 Dec 2023 0 N/A ATTENTION current NEG current 0 <1 0 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	history1 WC0625229 10 Feb 2022 0 N/A ATTENTION history1 NEG history1 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 0 <1 0	history2 WC0582660 24 Jun 2021 0 N/A ABNORMAL history2 NEG history2 <1 0 0 <1 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
Client Info Client Info Client Info Client Info Client Info WC Method WC Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>0.05 limit/base >20 >20 >20 >20 >20 >20 >20	07 Dec 2023 0 0 N/A ATTENTION Current NEG Current <1 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0	10 Feb 2022 0 0 N/A ATTENTION history1 NEG history1 <1 0 <1 0 0 <1 0 0 <1 4 1 2 <1 0 0 0 <1 <1 0 0 0 0 <1 <1 0 0 0 0 0	24 Jun 2021 0 N/A ABNORMAL history2 NEG history2 <1 0 0 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1
Client Info Client Info Client Info Client Info WC Method WC Method ASTM D5185(m) ASTM D5185(m)	>0.05 limit/base >20 >20 >20 >20 >20 >20 >20	0 0 N/A ATTENTION Current NEG Current current 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0	0 0 N/A ATTENTION NEG NEG (1 0 (1 0 (1 0 0 (1 (1 0 0 (1 (1) (1) (1) (1) (1) (1) (1) (1) (1)	0 0 N/A ABNORMAL history2 NEG history2 <1 0 0 0 0 <1 <1 <1 <1 <1 <1 <1 <1 2 <1 2
Client Info Client Info Client Info WC Method ASTM D5185(m) ASTM D5185(m)	>0.05 limit/base >20 >20 >20 >20 >20 >20 >20	0 N/A ATTENTION Current NEG Current current 0 (0 (1 (0) (1) (0) (1) (0) (1) (0) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	0 N/A ATTENTION history1 NEG history1 <1 0 <1 0 0 <1 <1 <1 2 <1 2 <1 0 0 0	0 N/A ABNORMAL NEG NEG (1 0 0 0 0 (1 (1 (1) (1) (2) (1) (2) (1) (2) (1) (1) (2) (1) (2) (1) (2) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
Client Info method WC Method ASTM D5185(m) ASTM D5185(m)	>0.05 limit/base >20 >20 >20 >20 >20 >20 >20	N/A ATTENTION Current NEG Current <1 0 0 <1 0 <1 0 <1 2 0 <1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N/A ATTENTION history1 NEG history1 <1 0 <1 0 0 <1 <1 <1 2 <1 2 <1 0 0 0	N/A ABNORMAL history2 NEG history2 <1 0 0 0 0 <1 <1 <1 <1 <1 <1 2 <1 2 <1
method WC Method WC Method ASTM D5185(m)	>0.05 limit/base >20 >20 >20 >20 >20 >20 >20	ATTENTION	ATTENTION history1 NEG (1) (1) (2) (2) (2) (3) (4) (2) (3) (4) (4) (2) (4) (2) (4) (4) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	ABNORMAL history2 NEG history2 <1 0 0 0 <1 <1 <1 <1 <1 <1 2 <1 2 <1 0
WC Method method ASTM D5185(m)	>0.05 limit/base >20 >20 >20 >20 >20 >20 >20	current NEG current <1	history1 NEG history1 <1	history2 NEG history2 <1
WC Method method ASTM D5185(m)	>0.05 limit/base >20 >20 >20 >20 >20 >20 >20	NEG current <1 0 0 <1 0 <1 2 0 0 0 0 0 0 0 0 0	NEG history1 <1 0 <1 0 0 <1 <1 <1 <1 2 <1 2 <1 0 0 0	NEG history2 <1 0 0 0 <1 <1 <1 <1 2 <1 2 <1 0
method ASTM D5185(m)	limit/base >20 >20 >20 >20 >20 >20 >20 >20	Current <1 0 0 0 <1 0 <1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	history1 <1 0 <1 0 <1 0 <1 <1 <1 <1 <1 2 <1 2 <	history2 <1
ASTM D5185(m) ASTM D5185(m)	>20 >20 >20 >20 >20 >20 >20 >20	<1 0 0 <1 0 <1 2 0 0 0 0 0 0	<1 0 <1 0 0 <1 <1 <1 2 <1 0 0	<1 0 0 <1 <1 <1 <1 2 <1 0
ASTM D5185(m)	>20 >20 >20 >20 >20 >20	0 0 <1 0 <1 2 0 0 0 0 0 0	0 <1 0 <1 <1 2 <1 0 0	0 0 <1 <1 <1 <1 2 <1 0
ASTM D5185(m)	>20 >20 >20 >20	0 0 <1 0 <1 2 0 0 0 0 0 0 0	<1 0 <1 <1 2 <1 0 0	0 0 <1 <1 <1 2 <1 0
ASTM D5185(m)	>20 >20 >20	0 <1 0 <1 2 0 0 0 0 0 0	0 0 <1 <1 2 <1 0 0 0	0 <1 <1 <1 2 <1 0
ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >20	<1 0 <1 2 0 0 0 0 0	0 <1 <1 2 <1 0 0	<1 <1 <1 2 <1 0
ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >20	0 <1 2 0 0 0 0 0	<1 <1 2 <1 0 0	<1 <1 2 <1 0
ASTM D5185(m)	>20 >20	<1 2 0 0 0 0 0	<1 2 <1 0 0	<1 2 <1 0
ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >20	2 0 0 0 0	2 <1 0 0	2 <1 0
ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0 0	<1 0 0	<1 0
ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20	0 0 0	0	0
ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0	0	
ASTM D5185(m) ASTM D5185(m)		0		
ASTM D5185(m)			0	
1071/20100			~	0
ASTM D5185(m)		0	0	0
method	limit/base	current	history1	history2
ASTM D5185(m)		<1	<1	<1
ASTM D5185(m)		<1	0	0
ASTM D5185(m)		0	0	<1
ASTM D5185(m)		0	0	0
ASTM D5185(m)		17	<1	<1
ASTM D5185(m)		48	61	76
ASTM D5185(m)		294	314	317
ASTM D5185(m)		358	367	421
ASTM D5185(m)		1986	2460	3500
ASTM D5185(m)		<1	<1	<1
method	limit/base	current	history1	history2
ASTM D5185(m)	>15	0	<1	2
ASTM D5185(m)		0	0	<1
ASTM D5185(m)	>20	0	<1	<1
method	limit/base	current	history1	history2
ASTM D7647	>5000	6 5008	4551	▲ 30427
ASTM D7647	>1300	<u> </u>	1 617	▲ 8385
	>160	92	2 08	▲ 827
ASTM D7647	>40	22	6 3	2 01
		2	6	10
	~10	3		
ASTM D7647		3 1	0	0
	ASTM D5185(m) ASTM D5185(m) method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	ASTM D5185(m) ASTM D5185(m) >20 method limit/base ASTM D7647 >5000 ASTM D7647 >1300 ASTM D7647 >160 ASTM D7647 >40	ASTM D5185(m) 0 ASTM D5185(m) >20 0 method limit/base current ASTM D7647 >5000 5008 ASTM D7647 >1300 1361 ASTM D7647 >160 92 ASTM D7647 >40 22 ASTM D7647 >10 3	ASTM D5185(m) 0 0 ASTM D5185(m) >20 0 <1

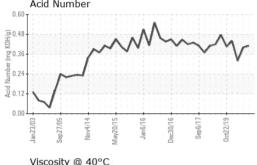
Sample Rating Trend

ISO



OIL ANALYSIS REPORT





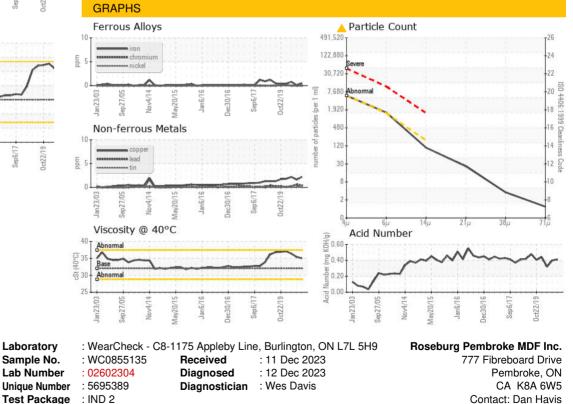
A			1.11			1
	~	7		 	1	
Base				 		
Abn	ormal			 	-	

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.41	0.40	0.32
VISUAL		method	limit/base	current	history1	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	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	VLITE
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
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	32.0	35.0	35.4	36.4
SAMPLE IMAGES	6	method	limit/base	current	history1	history2



Bottom





To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

danielh@rfpco.com T: (613)732-3939

F: (613)732-2869

CALA

ISO 17025:2017 Accredited Laboratory