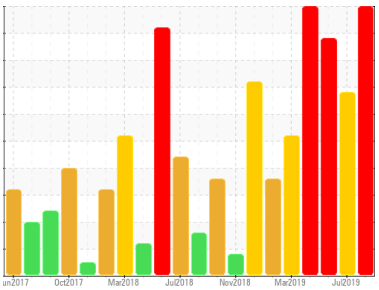
PROBLEM SUMMARY

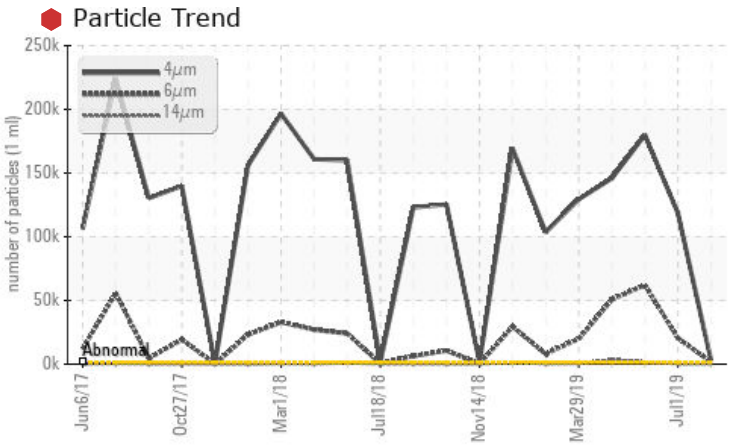
Sample Rating Trend

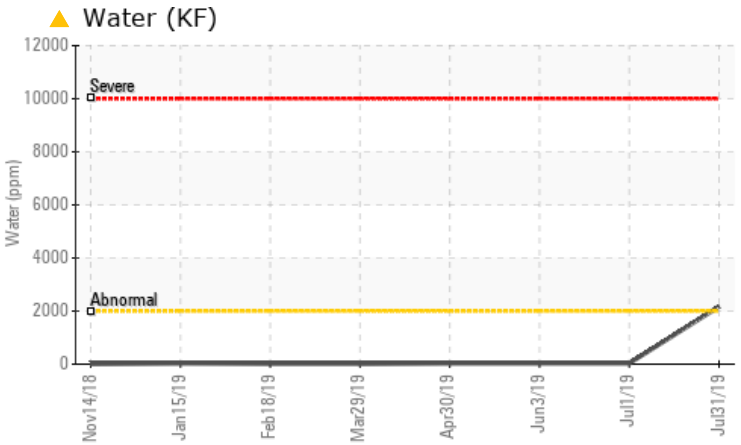


WATER

Area
RAW MATS
Machine Id
ROTATING ASSY REFINER 2
Component
Gearbox
Fluid
MOBIL SHC 627 (2 GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	SEVERE
Water	%	ASTM D6304	>0.2	▲ **0.217**	0.003	0.003
ppm Water	ppm	ASTM D6304	>2000	▲ **2170**	30	30
Particles >4µm		ASTM D7647	>1300	⬢ **3218**	⬢ 118411	⬢ 179829
Particles >6µm		ASTM D7647	>320	⬢ **1753**	⬢ 20376	⬢ 62170
Particles >14µm		ASTM D7647	>40	⬢ **298**	⬢ 171	⬢ 1731
Particles >21µm		ASTM D7647	>10	⬢ **100**	⬢ 31	⬢ 279
Particles >38µm		ASTM D7647	>3	⬢ **15**	2	⬢ 4
Oil Cleanliness		ISO 4406 (c)	>17/15/12	⬢ **19/18/15**	⬢ 24/22/15	⬢ 25/23/18
Free Water	scalar	*Visual		⬢ **2.0**	NEG	NEG

Customer Id: JAMPUL
Sample No.: WC0341559
Lab Number: 04771259
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.

HISTORICAL DIAGNOSIS

01 Jul 2019 Diag: Jonathan Hester

ISO

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

03 Jun 2019 Diag: Don Baldridge

ISO

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

30 Apr 2019 Diag: Jonathan Hester

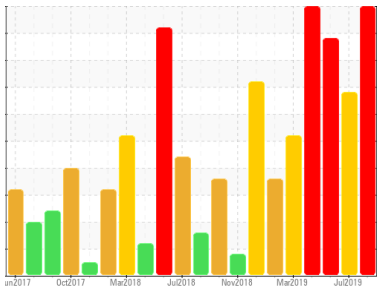
ISO

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 high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
RAW MATS
Machine Id
ROTATING ASSY REFINER 2
Component
Gearbox
Fluid
MOBIL SHC 627 (2 GAL)

DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. Free water present. There is a light concentration of water present in the oil.

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0341559**	WC0351487	WC0341566
Sample Date		Client Info		**31 Jul 2019**	01 Jul 2019	03 Jun 2019
Machine Age	days	Client Info		**0**	0	0
Oil Age	days	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**SEVERE**	SEVERE	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**38**	25	51
Iron	ppm	ASTM D5185m	>200	**13**	17	28
Chromium	ppm	ASTM D5185m	>15	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>15	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**<1**	<1	<1
Lead	ppm	ASTM D5185m	>100	**0**	0	<1
Copper	ppm	ASTM D5185m	>200	**0**	0	0
Tin	ppm	ASTM D5185m	>25	**<1**	0	0
Antimony	ppm	ASTM D5185m		**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

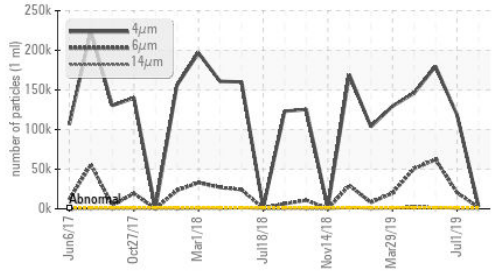
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	<1	<1
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	<1	0
Magnesium	ppm	ASTM D5185m		**0**	<1	0
Calcium	ppm	ASTM D5185m		**2**	2	0
Phosphorus	ppm	ASTM D5185m		**388**	401	436
Zinc	ppm	ASTM D5185m		**0**	<1	0
Sulfur	ppm	ASTM D5185m		**5**	174	64

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**3**	2	3
Sodium	ppm	ASTM D5185m		**<1**	<1	<1
Potassium	ppm	ASTM D5185m	>20	**0**	<1	0
Water	%	ASTM D6304	>0.2	▲ **0.217**	0.003	0.003
ppm Water	ppm	ASTM D6304	>2000	▲ **2170**	30	30

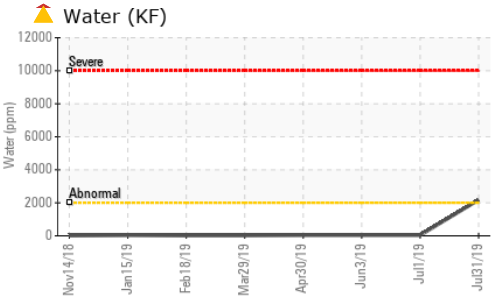
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	**3218**	118411	179829
Particles >6µm		ASTM D7647	>320	**1753**	20376	62170
Particles >14µm		ASTM D7647	>40	**298**	171	1731
Particles >21µm		ASTM D7647	>10	**100**	31	279
Particles >38µm		ASTM D7647	>3	**15**	2	4
Particles >71µm		ASTM D7647	>3	**1**	0	0
Oil Cleanliness		ISO 4406 (c)	>17/15/12	**19/18/15**	24/22/15	25/23/18

OIL ANALYSIS REPORT

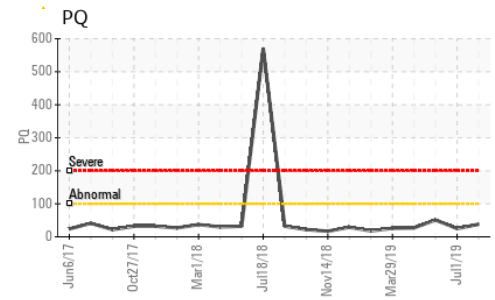
Particle Trend



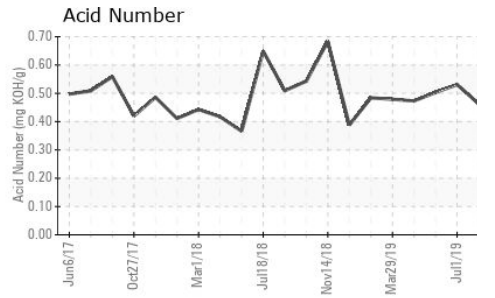
Water (KF)



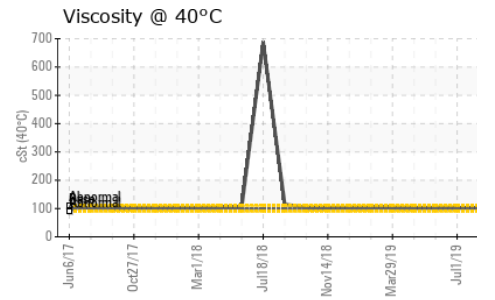
PQ



Acid Number



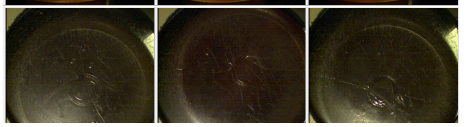
Viscosity @ 40°C



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.463**	0.531	0.503

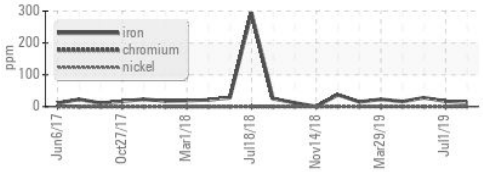
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**MODER**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ **LAYRD**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**0.2%**	NEG	NEG
Free Water	scalar	*Visual		⬢ **2.0**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	99.1	**102**	102	102

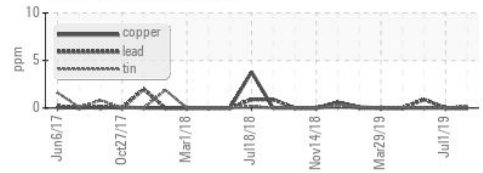
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

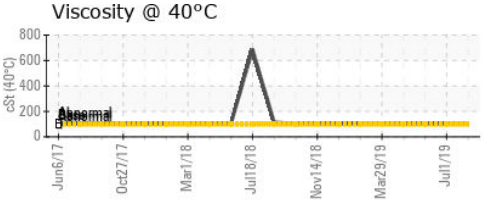
Ferrous Alloys



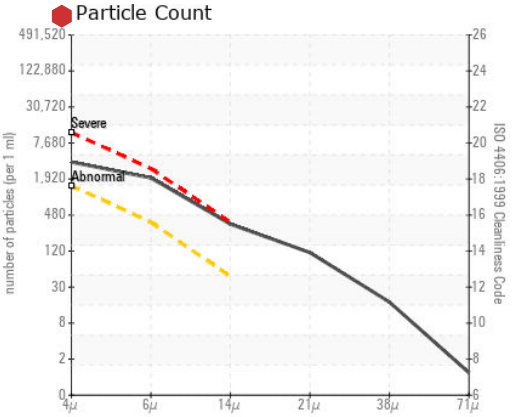
Non-ferrous Metals



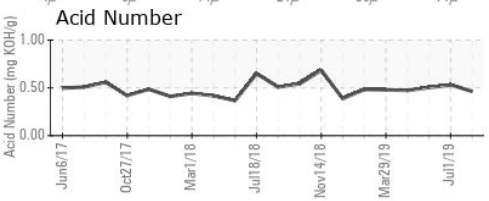
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0341559
Lab Number : 04771259
Unique Number : 8694051
Test Package : IND 2 (Additional Tests: KF, PQ, PrtCount)

Received : 07 Aug 2019
Tested : 08 Aug 2019
Diagnosed : 08 Aug 2019 - Jonathan Hester

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)

JAMES HARDIE BUILDING PRODUCTS - PULASKI
1000 JAMES HARDIE WAY
PULASKI, VA
US 24031
Contact: MICHAEL MITCHELL
mike.mitchell@jameshardie.com
T:
F:

Report Id: JAMPUL [WUSCAR] 04771259 (Generated: 02/23/2024 07:26:32) Rev: 1

Submitted By: Derek Stoots