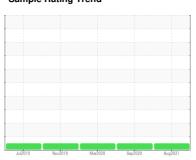


### **OIL ANALYSIS REPORT**

### Sample Rating Trend



NORMAL



# VACPUMP-046 - EAST

Component

Pump Fluid

SHELL MORLINA S4 B 320 (--- GAL)

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

### **Fluid Condition**

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

		Jul2019	Nov2019	Mar2020 Sep2020	Aug <sup>2</sup> 021	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0593679	WC0485569	WC0411082
Sample Date		Client Info		24 Aug 2021	10 Sep 2020	17 Mar 2020
Machine Age	hrs	Client Info		11985	6025	2131
Oil Age	hrs	Client Info		2001	2386	2131
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	<1	0	<1
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>7	0	0	<1
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m	>30	0	0	<1
Tin	ppm	ASTM D5185m	>9	2	0	3
Antimony	ppm	ASTM D5185m		0	0	4
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		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		0	<1	0
Phosphorus	ppm	ASTM D5185m		212	225	165
Zinc	ppm	ASTM D5185m		<1	0	<1
Sulfur	ppm	ASTM D5185m		428	579	1339
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	<1	7	17
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m	>20	10	<1	7
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045

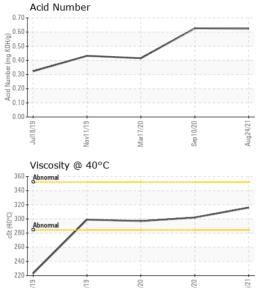
0.626

0.623

0.415



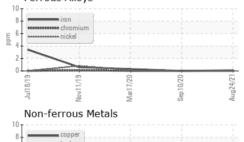
### **OIL ANALYSIS REPORT**

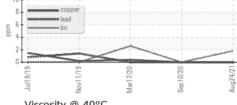


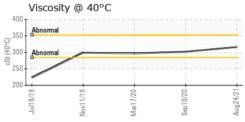
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual		NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		316	302	297
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

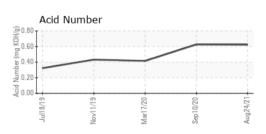
## Ferrous Alloys

**Bottom** 













Laboratory Sample No. Lab Number Unique Number : 9642185 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0593679 : 05338146

Received Diagnosed

: 30 Aug 2021 : 31 Aug 2021 Diagnostician : Jonathan Hester

**PO BOX 265** PRINSBURG, MN US 56281 Contact: KYLE SPORTEL kyles@prinsco.com

**PRINSCO - PRINSBURG** 

T: (320)978-4116

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)