



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**SIGNET VALIANT Z DRIVE**  
Component  
**Port Reduction Gear**  
Fluid  
**CHEVRON MEROPA 150 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0034654</b>	MW0034664	MW0052080
Sample Date		Client Info		<b>25 Jan 2024</b>	27 Dec 2023	02 Oct 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>70	<b>83</b>	89	78
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>3	<b>2</b>	1	0
Lead	ppm	ASTM D5185m	>12	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>40	<b>8</b>	7	6
Tin	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

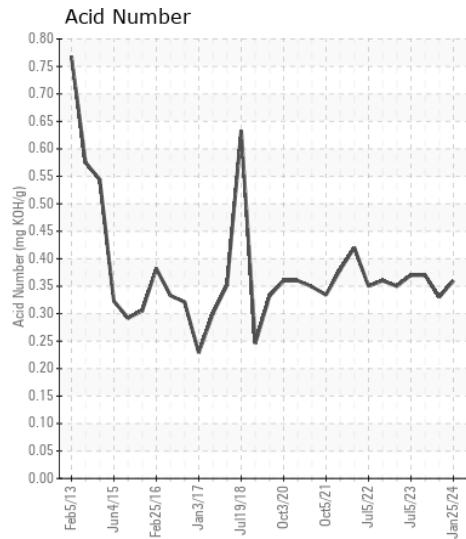
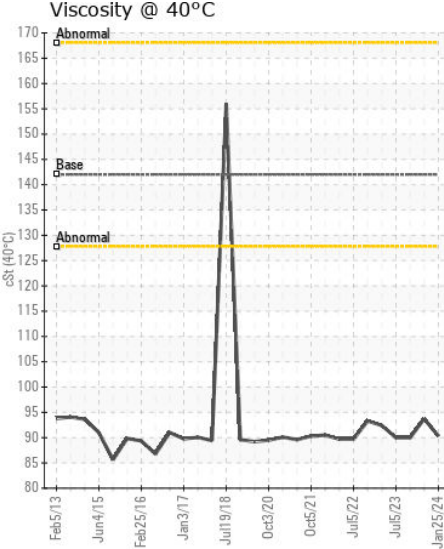
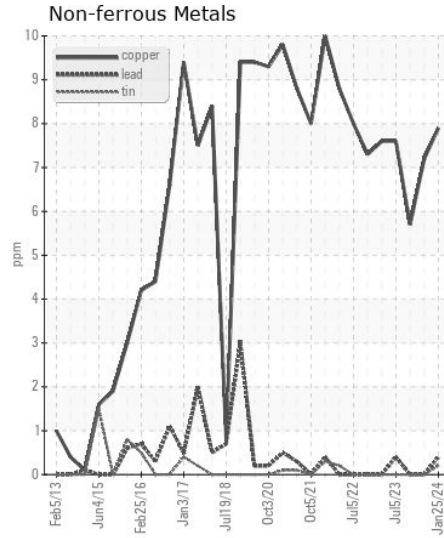
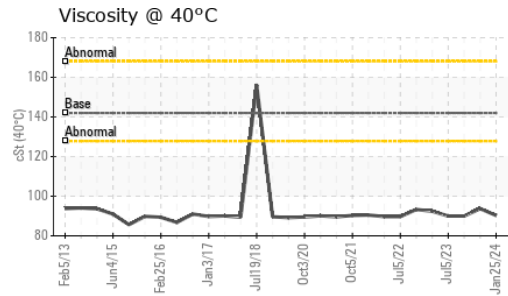
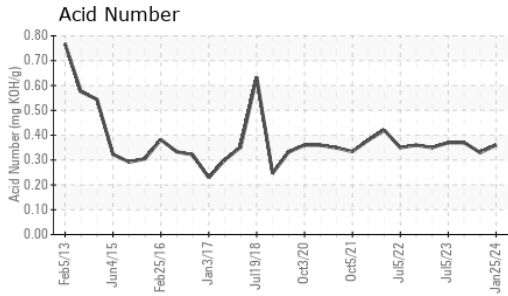
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	1
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	3	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>49</b>	43	47
Boron	ppm	ASTM D5185m		<b>6</b>	2	1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>17</b>	8	10
Calcium	ppm	ASTM D5185m		<b>26</b>	7	10
Phosphorus	ppm	ASTM D5185m		<b>170</b>	229	197
Zinc	ppm	ASTM D5185m		<b>45</b>	31	47
Sulfur	ppm	ASTM D5185m		<b>5787</b>	5380	5367
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.36</b>	0.33	0.37
Visc @ 40°C	cSt	ASTM D445	142	<b>90.3</b>	93.7	90.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0034654 **Received** : 30 Jan 2024  
**Lab Number** : 06074128 **Diagnosed** : 31 Jan 2024  
**Unique Number** : 10856219 **Diagnostician** : Jonathan Hester  
**Test Package** : MAR 2

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)

**MARITIME COMPANY**  
 3802 PORT RIVER RD  
 PASCAGOULA, MS  
 US 39567

Contact: TERRY SCUDDER  
 terry.scudder@signetmaritime.com

T:  
 F: (228)769-0629