



# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ATTENTION**  
**ABNORMAL**  
**NORMAL**

Machine Id  
**DEISTER 14024 DEISTER 8X20 2**  
Component  
**Upper Bearing**  
Fluid  
**SHELL MORLINA OIL ISO 320 (4 GAL)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

There is a moderate amount of visible silt present in the sample. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

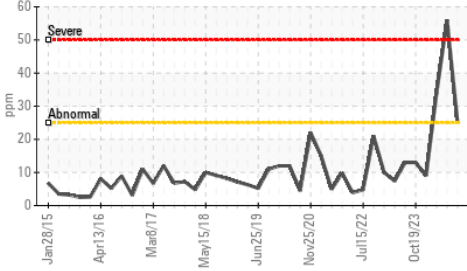
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0921825</b>	WC0921846	WC0891257
Sample Date		Client Info		<b>07 Jun 2024</b>	18 Apr 2024	07 Mar 2024
Machine Age	mths	Client Info		<b>0</b>	0	0
Oil Age	mths	Client Info		<b>5</b>	1	1
Filter Age	mths	Client Info		<b>5</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>200	<b>69</b>	84	▲ 238
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	>5	<b>2</b>	2	2
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>7</b>	15	8
Lead	ppm	ASTM D5185m	>50	<b>8</b>	2	4
Copper	ppm	ASTM D5185m	>150	<b>93</b>	20	23
Tin	ppm	ASTM D5185m	>10	<b>1</b>	2	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

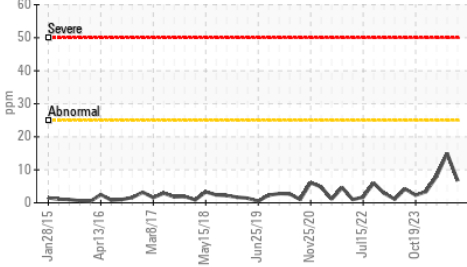
Silicon	ppm	ASTM D5185m	>25	<b>▲ 25</b>	▲ 56	▲ 34
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	6	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>▲ MODER</b>	NONE	MODER
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

Sodium	ppm	ASTM D5185m		<b>0</b>	4	5
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	2
Magnesium	ppm	ASTM D5185m		<b>2</b>	3	<1
Calcium	ppm	ASTM D5185m		<b>0</b>	13	8
Phosphorus	ppm	ASTM D5185m		<b>26</b>	2	0
Zinc	ppm	ASTM D5185m		<b>54</b>	4	0
Sulfur	ppm	ASTM D5185m		<b>8557</b>	3528	2438
Visc @ 40°C	cSt	ASTM D445	316	<b>286</b>	215	205

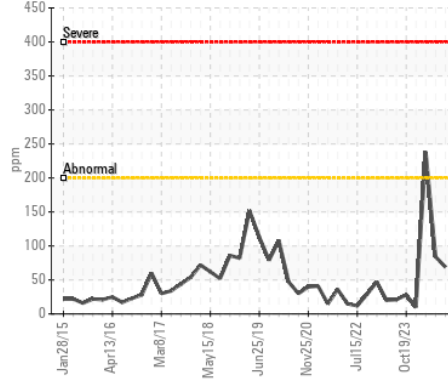
▲ Silicon (ppm)



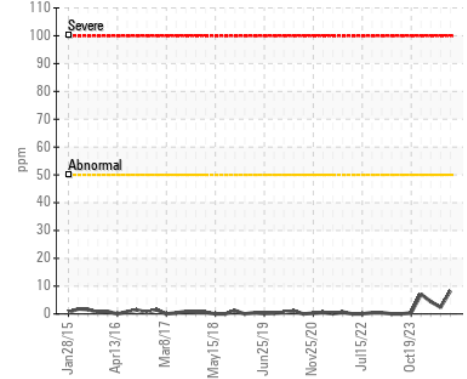
● Aluminum (ppm)



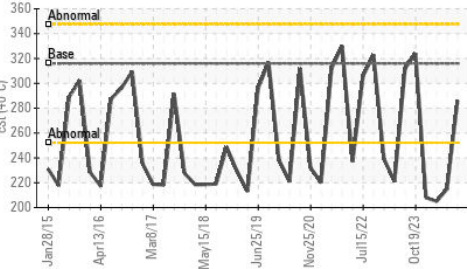
Iron (ppm)



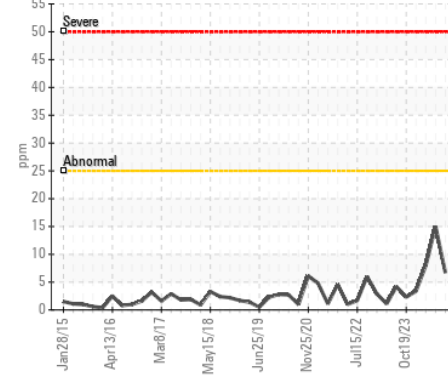
Lead (ppm)



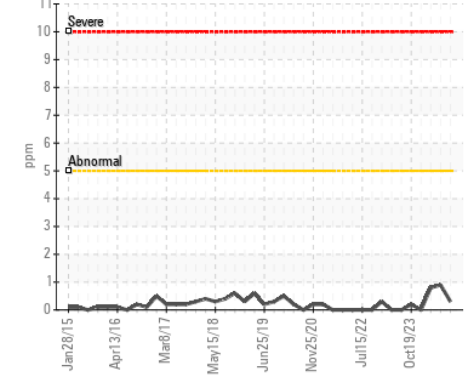
● Aluminum (ppm)



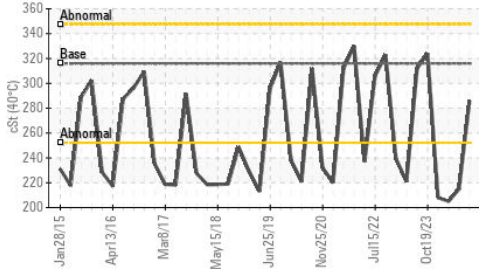
● Aluminum (ppm)



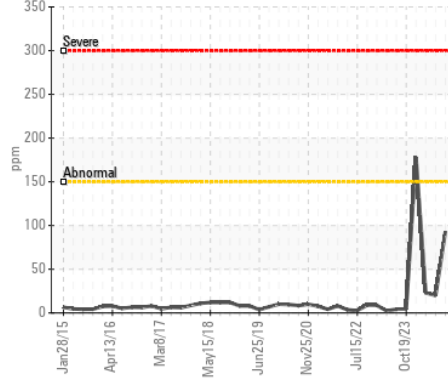
Chromium (ppm)



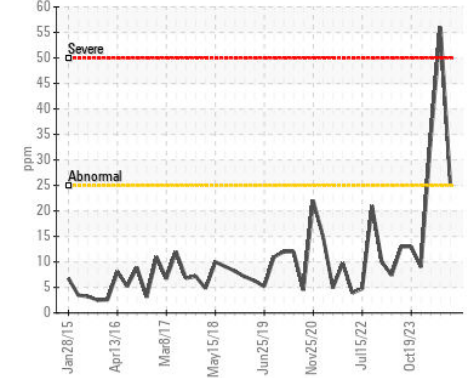
Viscosity @ 40°C



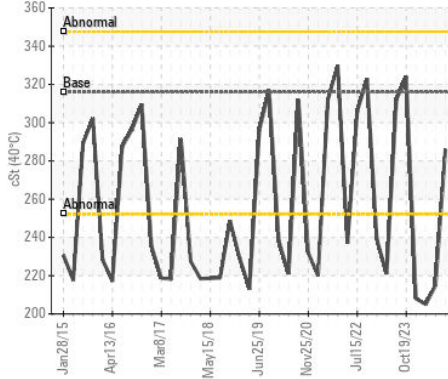
Copper (ppm)



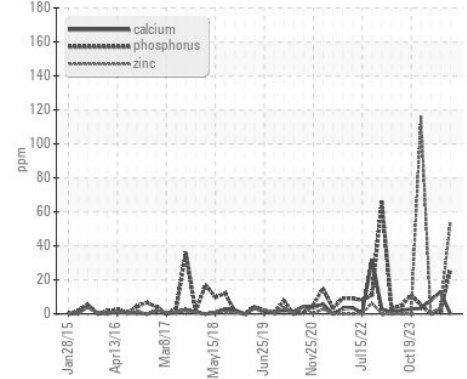
▲ Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0921825 **Received** : 11 Jul 2024  
**Lab Number** : 06234101 **Tested** : 15 Jul 2024  
**Unique Number** : 11122935 **Diagnosed** : 15 Jul 2024 - Don Baldrige  
**Test Package** : MOB 1

**WAKE STONE CORPORATION-MONCURE**  
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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)