



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 220 (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

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.

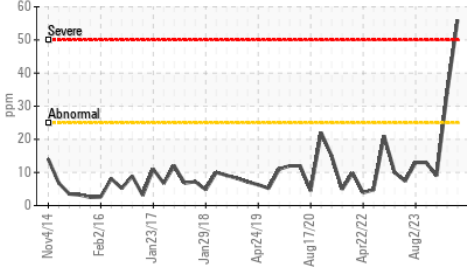
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0921846	WC0891257	WC0891240
Sample Date		Client Info		18 Apr 2024	07 Mar 2024	26 Jan 2024
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		1	1	3
Filter Age	mths	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	Not Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>200	84	▲ 238	10
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	0	1
Titanium	ppm	ASTM D5185m	>5	2	2	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	15	● 8	3
Lead	ppm	ASTM D5185m	>50	2	4	7
Copper	ppm	ASTM D5185m	>150	20	23	▲ 178
Tin	ppm	ASTM D5185m	>10	2	2	3
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT

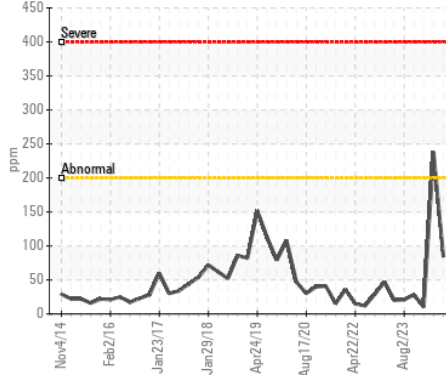
Silicon	ppm	ASTM D5185m	>25	▲ 56	▲ 34	9
Potassium	ppm	ASTM D5185m	>20	6	2	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	● HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

Sodium	ppm	ASTM D5185m		4	5	<1
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		1	2	2
Magnesium	ppm	ASTM D5185m		3	<1	2
Calcium	ppm	ASTM D5185m		13	8	3
Phosphorus	ppm	ASTM D5185m		2	0	5
Zinc	ppm	ASTM D5185m		4	0	116
Sulfur	ppm	ASTM D5185m		3528	2438	2591
Visc @ 40°C	cSt	ASTM D445	220	215	205	208

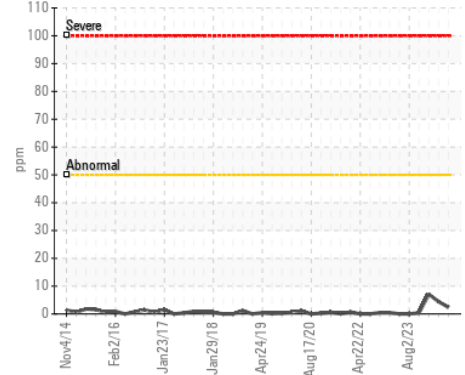
▲ Silicon (ppm)



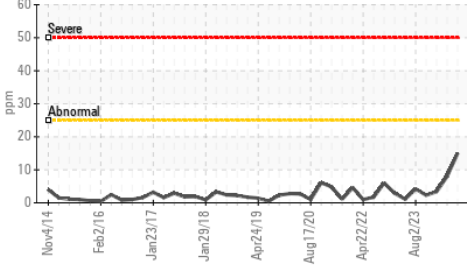
Iron (ppm)



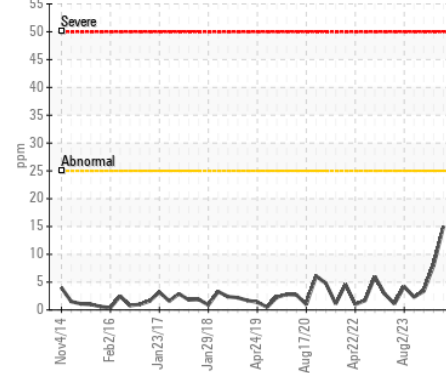
Lead (ppm)



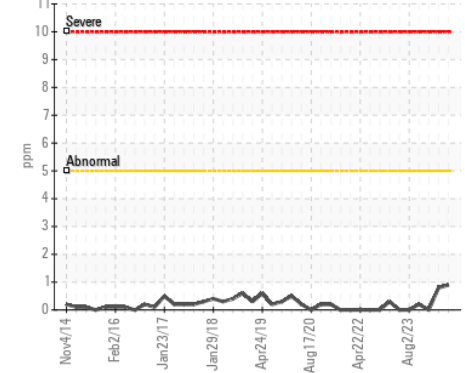
● Aluminum (ppm)



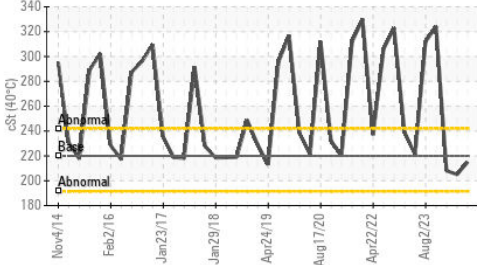
● Aluminum (ppm)



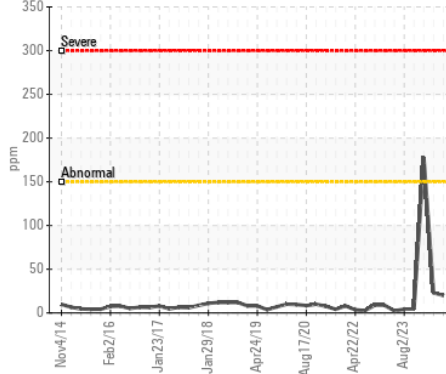
Chromium (ppm)



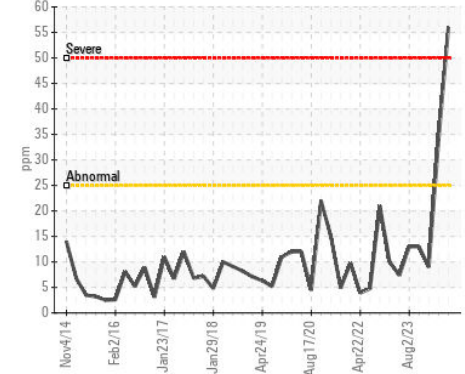
Viscosity @ 40°C



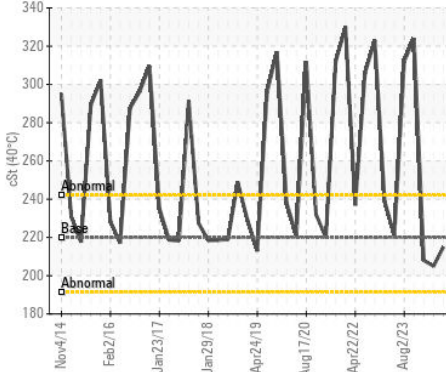
Copper (ppm)



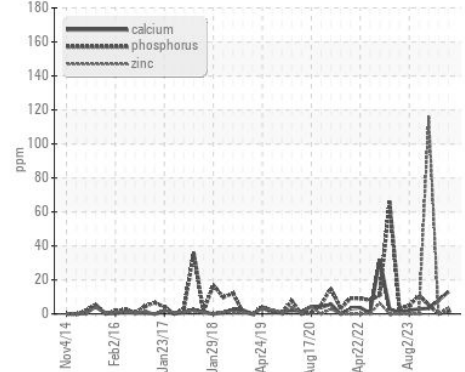
▲ Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

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

Sample No. : WC0921846

Lab Number : 06186981

Unique Number : 11043733

Test Package : MOB 1

Received : 21 May 2024

Tested : 23 May 2024

Diagnosed : 23 May 2024 - Don Baldrige

WAKE STONE CORPORATION-MONCURE

P.O. BOX 158

MONCURE, NC

US 27559

Contact: ROBBIE BOGAN

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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)