MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
H/R JAW CRUSHER 5011 DRIVE
Component
Gearbox
Fluid
SHELL OMALA S2 G 220 (45 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

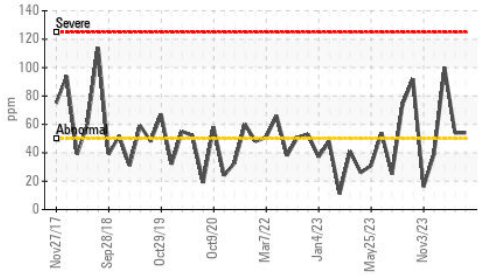
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

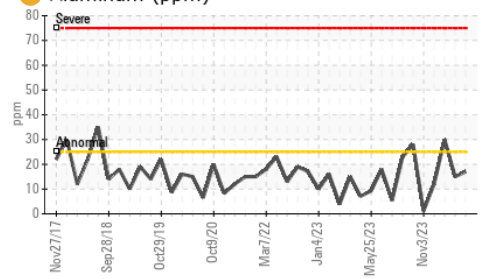
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0891244**	WC0921830	WC0891250
Sample Date		Client Info		**26 Jun 2024**	25 Apr 2024	31 Jan 2024
Machine Age	hrs	Client Info		**20838**	20533	203
Oil Age	hrs	Client Info		**324**	506	719
Filter Age	hrs	Client Info		**324**	506	719
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>200	**84**	67	100
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>10	**<1**	<1	<1
Titanium	ppm	ASTM D5185m		**2**	2	2
Silver	ppm	ASTM D5185m		**<1**	<1	0
Aluminum	ppm	ASTM D5185m	>25	**17**	15	30
Lead	ppm	ASTM D5185m	>50	**0**	<1	<1
Copper	ppm	ASTM D5185m	>200	**4**	<1	0
Tin	ppm	ASTM D5185m	>10	**0**	<1	<1
Vanadium	ppm	ASTM D5185m		**<1**	<1	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	▲ **54**	▲ 54	▲ 100
Potassium	ppm	ASTM D5185m	>20	**6**	5	7
Water		WC Method	>0.2	**NEG**	NEG	NEG
Silt	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**3**	4	10
Boron	ppm	ASTM D5185m	4.4	**2**	2	3
Barium	ppm	ASTM D5185m	0.0	**1**	0	0
Molybdenum	ppm	ASTM D5185m	0	**<1**	<1	0
Manganese	ppm	ASTM D5185m		**<1**	1	2
Magnesium	ppm	ASTM D5185m	0	**4**	3	6
Calcium	ppm	ASTM D5185m	0	**6**	14	20
Phosphorus	ppm	ASTM D5185m	215	**322**	330	312
Zinc	ppm	ASTM D5185m	0	**4**	0	0
Sulfur	ppm	ASTM D5185m	7039	**10990**	12790	10432
Visc @ 40°C	cSt	ASTM D445	220	**205**	205	190

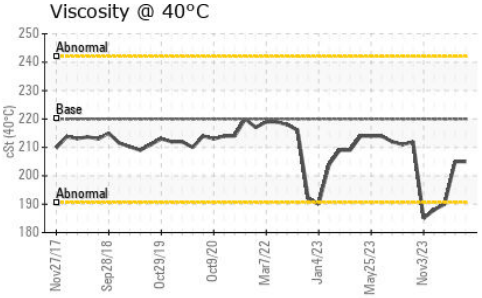
Silicon (ppm)



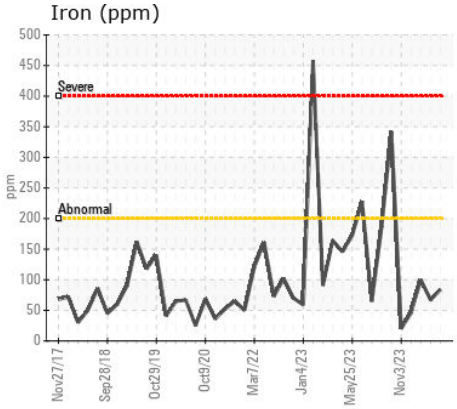
Aluminum (ppm)



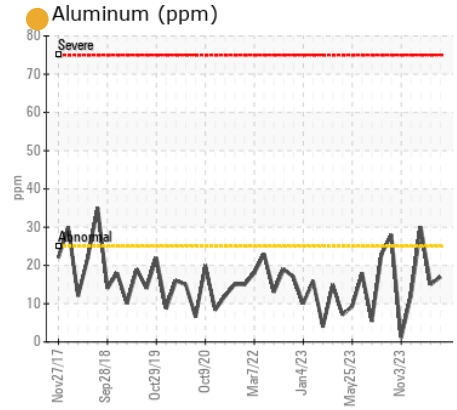
Viscosity @ 40°C



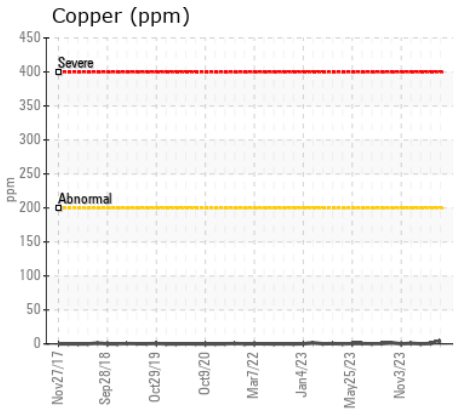
Iron (ppm)



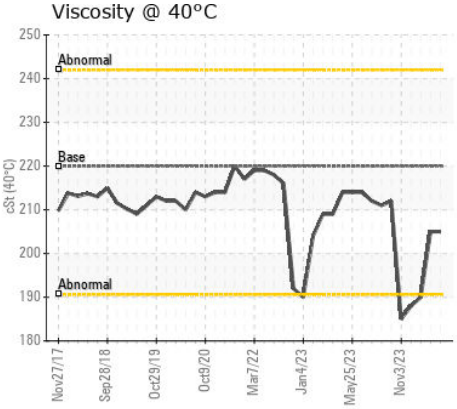
Aluminum (ppm)



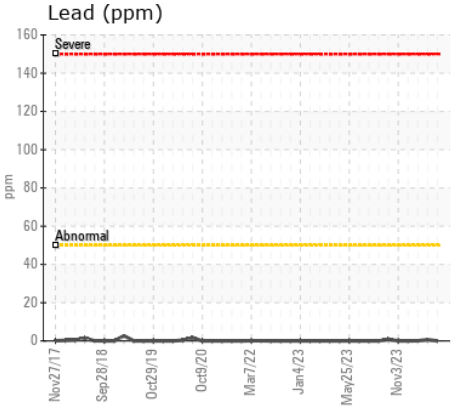
Copper (ppm)



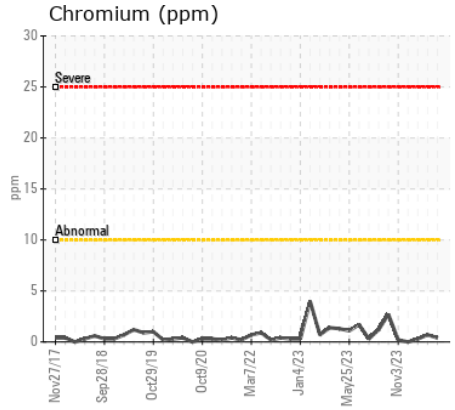
Viscosity @ 40°C



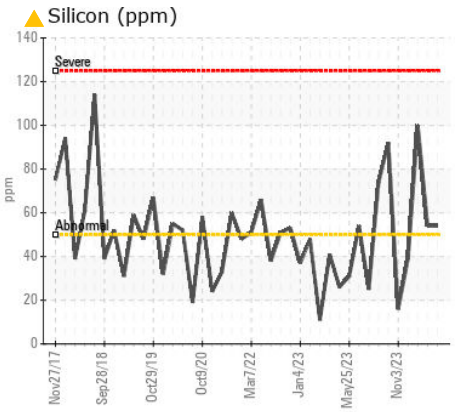
Lead (ppm)



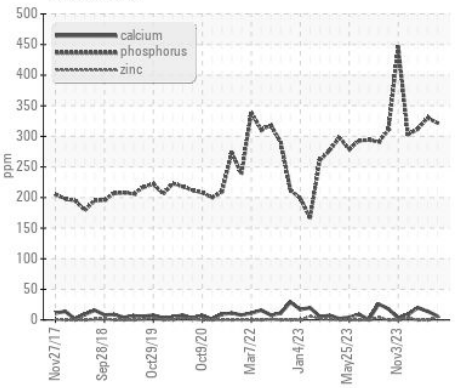
Chromium (ppm)



Silicon (ppm)



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0891244
Lab Number : 06234104
Unique Number : 11122938
Test Package : MOB 1

Received : 11 Jul 2024
Tested : 15 Jul 2024
Diagnosed : 15 Jul 2024 - Don Baldridge

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)

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