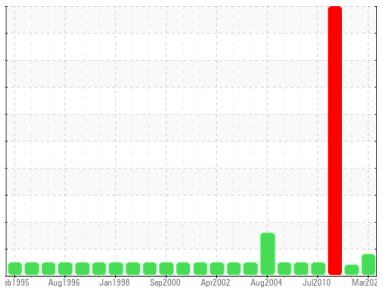
OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Area
47 BLEACH PLANT
Machine Id
CL2 TOWER SCRAPER - REDUCER (S/N 472812)
Component
Gear Reducer
Fluid
MOBIL SHC 629 (5 GAL)

DIAGNOSIS

Recommendation
We advise that you check all areas where contaminants can enter the system. We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
Lithium (Li) level abnormal at 66ppm., indicates possible grease contamination.

Fluid Condition
Viscosity of sample indicates oil is within SAE 90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC**	WC	WC
Sample Date		Client Info		**21 Mar 2024**	08 Apr 2016	06 Dec 2015
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**0**	5	▲ 681
Iron	ppm	ASTM D5185(m)	>150	**25**	4	▲ 1609
Chromium	ppm	ASTM D5185(m)	>10	**0**	0	▲ 19
Nickel	ppm	ASTM D5185(m)	>10	**0**	0	4
Titanium	ppm	ASTM D5185(m)		**0**	0	2
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>25	**<1**	0	1
Lead	ppm	ASTM D5185(m)	>100	**0**	0	5
Copper	ppm	ASTM D5185(m)	>50	**2**	1	45
Tin	ppm	ASTM D5185(m)	>10	**0**	0	2
Antimony	ppm	ASTM D5185(m)	>5	**6**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	<1
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**<1**	<1	2
Barium	ppm	ASTM D5185(m)		**8**	<1	0
Molybdenum	ppm	ASTM D5185(m)		**0**	0	0
Manganese	ppm	ASTM D5185(m)		**0**	0	7
Magnesium	ppm	ASTM D5185(m)		**<1**	0	1
Calcium	ppm	ASTM D5185(m)		**10**	<1	2
Phosphorus	ppm	ASTM D5185(m)		**616**	678	566
Zinc	ppm	ASTM D5185(m)		**60**	5	3
Sulfur	ppm	ASTM D5185(m)		**1287**	1272	179
Lithium	ppm	ASTM D5185(m)		▲ **66**	1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	**5**	2	▲ 52
Sodium	ppm	ASTM D5185(m)		**8**	0	<1
Potassium	ppm	ASTM D5185(m)	>20	**0**	<1	<1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**0.33**	0.697	0.40

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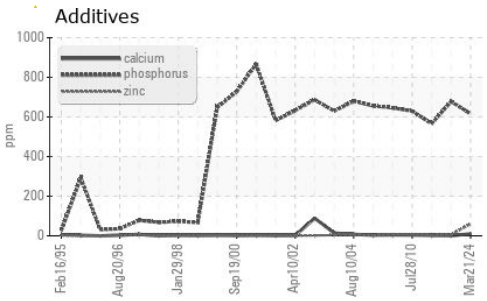
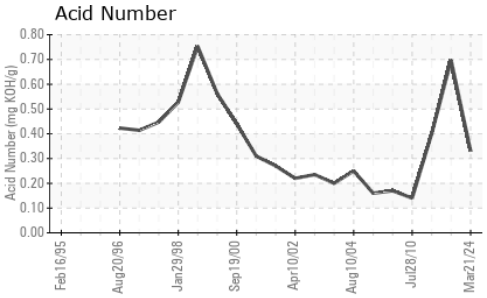
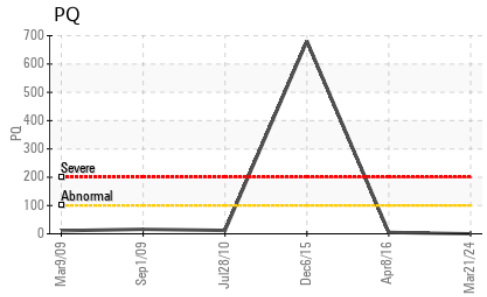
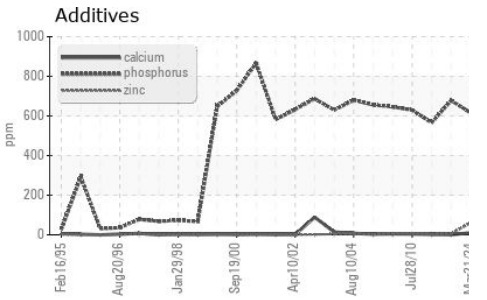


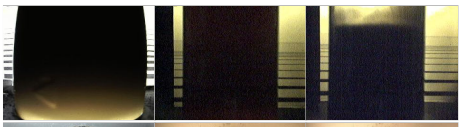
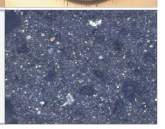




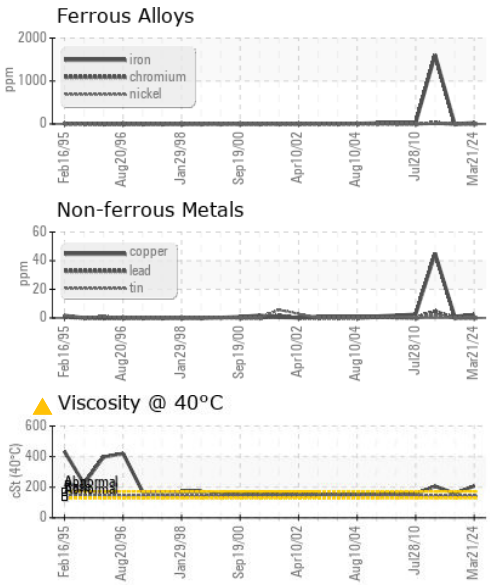


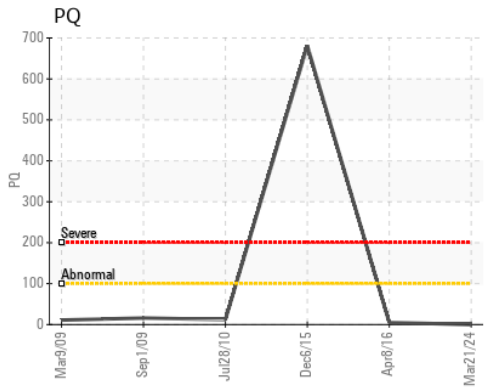
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	▲ MODER
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	LIGHT
Debris	scalar	Visual*	NONE	**LIGHT**	LIGHT	NONE
Sand/Dirt	scalar	Visual*	NONE	**VLITE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	NORML	NORML
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

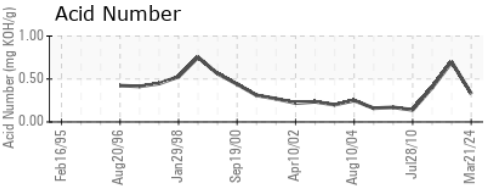
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	142.8	▲ **208**	▲ 160	▲ 206

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter			*no image*	*no image*	

GRAPHS







ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC
Lab Number : 02626204
Unique Number : 5759336
Test Package : IND 2 (Additional Tests: TAN Man)

Received : 02 Apr 2024
Tested : 03 Apr 2024
Diagnosed : 03 Apr 2024 - Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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