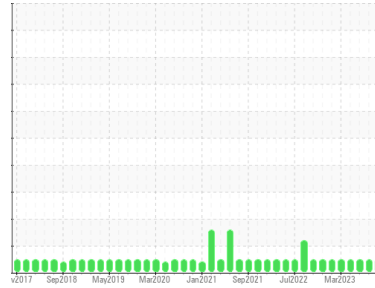




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**VILTER 2**

Component  
**Compressor**

Fluid  
**MOBIL SHC 627 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0849998</b>	WC0849991	WC0745752
Sample Date	Client Info		<b>29 Jan 2024</b>	05 Oct 2023	02 Aug 2023
Machine Age	hrs	Client Info	<b>92820</b>	89792	88400
Oil Age	hrs	Client Info	<b>92820</b>	89792	88400
Oil Changed	Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	<b>0</b>	0	0
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	1
Lead	ppm	ASTM D5185m	>25	<b>2</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>2</b>	0	<1
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>2</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>1</b>	1	0
Calcium	ppm	ASTM D5185m		<b>&lt;1</b>	1	0
Phosphorus	ppm	ASTM D5185m		<b>64</b>	41	49
Zinc	ppm	ASTM D5185m		<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m		<b>1511</b>	1571	1963

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<b>16</b>	16	16
Sodium	ppm	ASTM D5185m		<b>2</b>	0	4
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	<1	<1

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>2091</b>	1153	1584
Particles >6µm	ASTM D7647	>2500	<b>621</b>	240	327
Particles >14µm	ASTM D7647	>320	<b>23</b>	14	21
Particles >21µm	ASTM D7647	>80	<b>4</b>	5	6
Particles >38µm	ASTM D7647	>20	<b>0</b>	2	1
Particles >71µm	ASTM D7647	>4	<b>0</b>	1	1
Oil Cleanliness	ISO 4406 (c)	>21/18/15	<b>18/16/12</b>	17/15/11	18/16/12

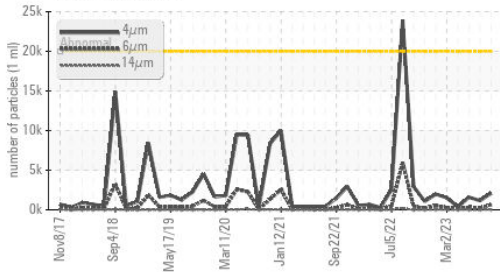
## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.92</b>	0.63	0.49

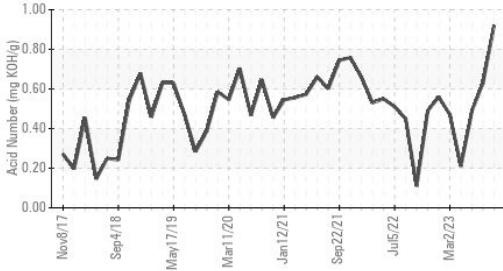


# OIL ANALYSIS REPORT

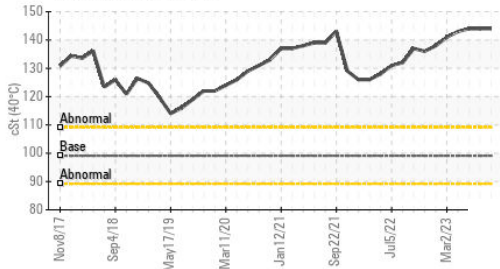
**Particle Trend**



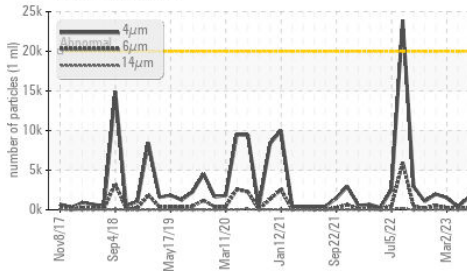
**Acid Number**



**Viscosity @ 40°C**



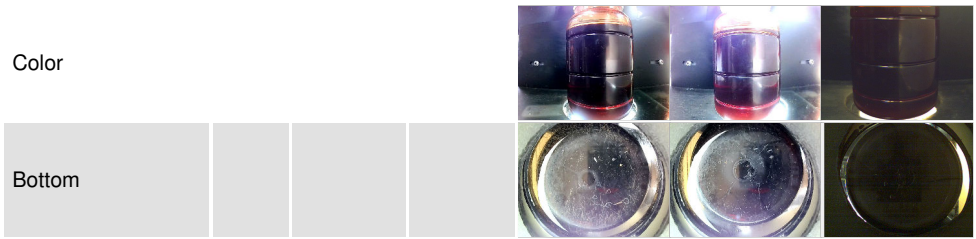
**Particle Trend**



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

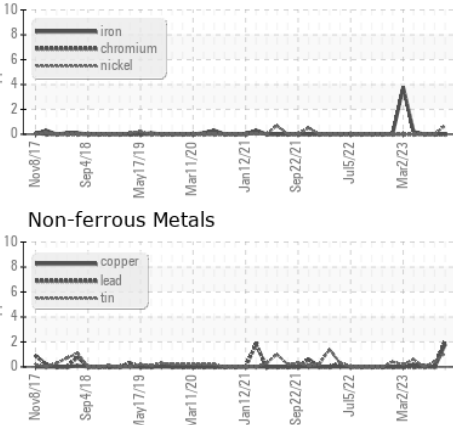
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 99.1	<b>144</b>	144	144

SAMPLE IMAGES	method	limit/base	current	history1	history2
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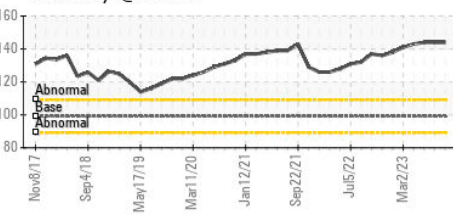


## GRAPHS

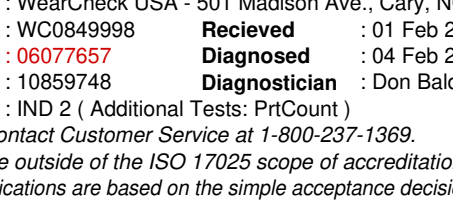
**Ferrous Alloys**



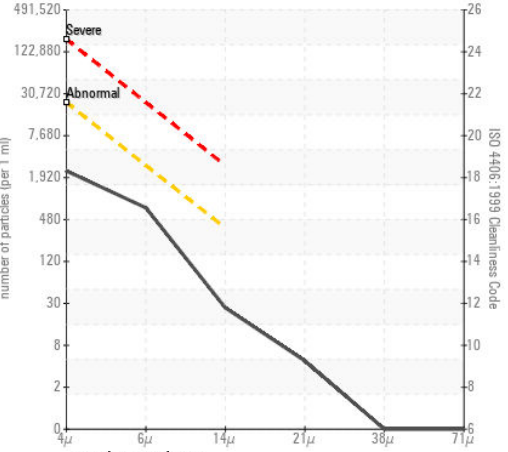
**Non-ferrous Metals**



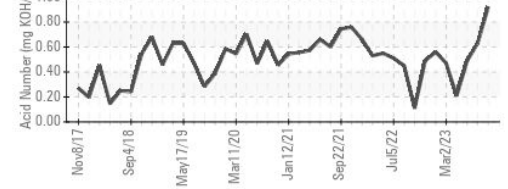
**Viscosity @ 40°C**



**Particle Count**



**Acid Number**



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0849998 **Received** : 01 Feb 2024  
**Lab Number** : 06077657 **Diagnosed** : 04 Feb 2024  
**Unique Number** : 10859748 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )  
 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)

**GREENE VALLEY LANDFILL**  
 9 SOUTH 610 GREENE ROAD  
 NAPERVILLE, IL  
 US 60565  
 Contact: CHRIS ADEN  
 caden@wm.com  
 T: (630)743-4479  
 F: (630)983-1535