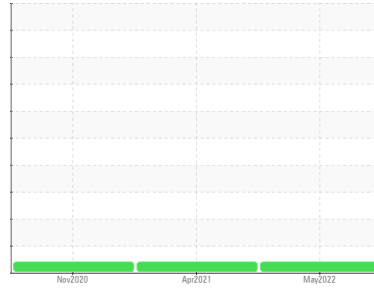




# OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id  
**OR455**  
 Component  
**Pump Drive**  
 Fluid  
**MOBIL SHC 632 (9 LTR)**

## DIAGNOSIS

### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. 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.

### Fluid Condition

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0030425</b>	GFL0010856	GFL0003077
Sample Date	Client Info		<b>19 May 2022</b>	07 Apr 2021	13 Nov 2020
Machine Age	hrs	Client Info	<b>14239</b>	11976	11008
Oil Age	hrs	Client Info	<b>1858</b>	1000	500
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >500	<b>38</b>	24	8
Chromium	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m) >35	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185(m) >4	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>79</b>	2	<1
Barium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	<b>4</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	<b>14</b>	18	7
Phosphorus	ppm	ASTM D5185(m)	<b>605</b>	431	411
Zinc	ppm	ASTM D5185(m)	<b>77</b>	53	5
Sulfur	ppm	ASTM D5185(m)	<b>6973</b>	1530	346
Lithium	ppm	ASTM D5185(m)	<b>2</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	<b>25</b>	13	21
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1

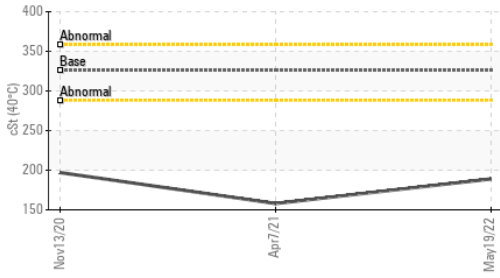
## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual* NONE	<b>NONE</b>	VLITE	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* >0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*	<b>NEG</b>	NEG	NEG

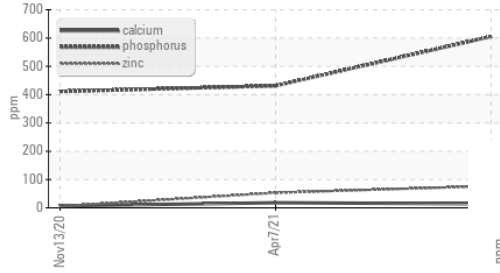


# OIL ANALYSIS REPORT

## Viscosity @ 40°C



## Additives



## FLUID PROPERTIES

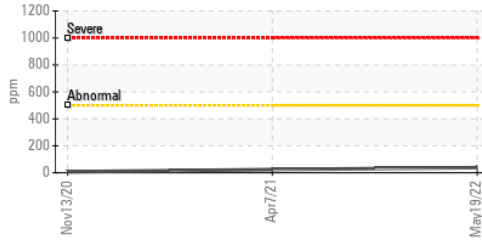
method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	325.8	▲ 189	▲ 158

## SAMPLE IMAGES

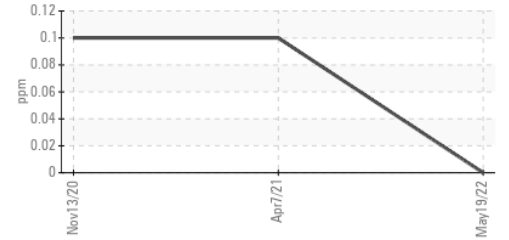
method	limit/base	current	history1	history2
Color				
Bottom				

## GRAPHS

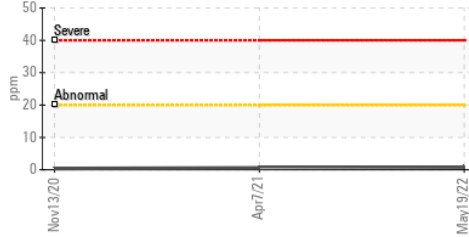
### Iron (ppm)



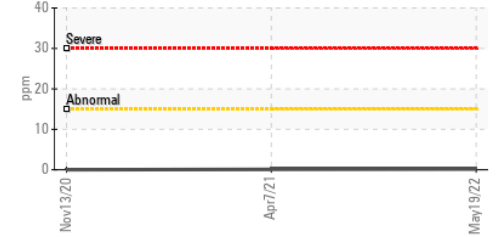
### Lead (ppm)



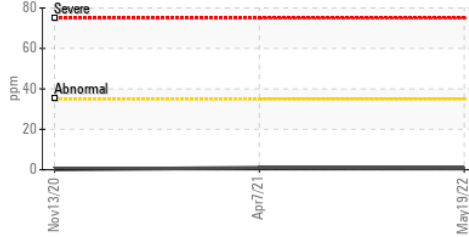
### Aluminum (ppm)



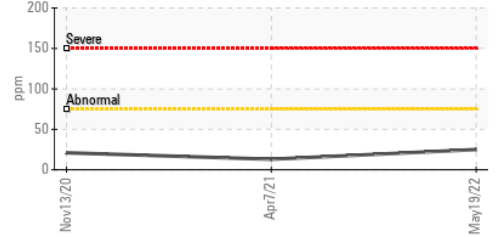
### Chromium (ppm)



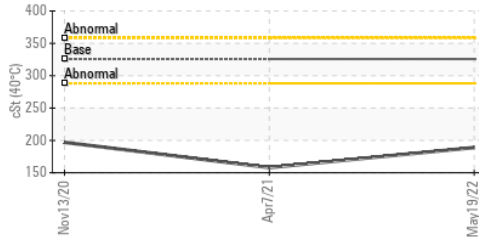
### Copper (ppm)



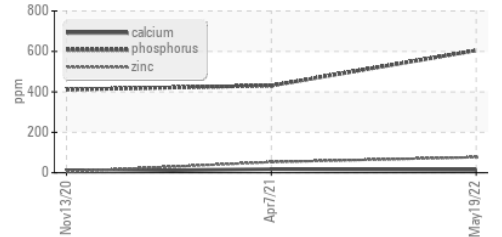
### Silicon (ppm)



## Viscosity @ 40°C



## Additives



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 720 - Lafleche - Landfill  
**Sample No.** : GFL0030425  
**Lab Number** : 02490678  
**Unique Number** : 5399616  
**Test Package** : MOB 1

**Received** : 25 May 2022  
**Diagnosed** : 26 May 2022  
**Diagnostician** : Kevin Marson

17125 Lafleche Road,  
Moose Creek, ON  
CA K0C 1W0  
Contact: Charles Bergeron  
cbergeron@gflenv.com  
T: (613)538-4853  
F:

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.