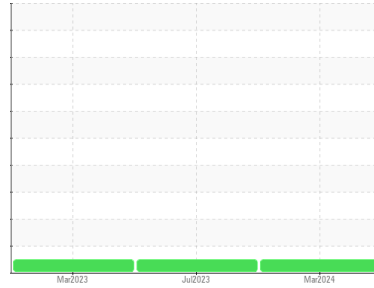




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Snubbing**  
 Machine Id  
**PAYSTAR G03**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL 15W40 (42 LTR)**

## 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.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0832126</b>	WC0792203	WC0792178
Sample Date	Client Info		<b>13 Mar 2024</b>	03 Jul 2023	23 Mar 2023
Machine Age	hrs	Client Info	<b>0</b>	20662	0
Oil Age	hrs	Client Info	<b>0</b>	0	500
Oil Changed	Client Info		<b>N/A</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	<b>5</b>	15	7
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	2	<1
Tin	ppm	ASTM D5185(m)	>15	<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>52</b>	163	6
Barium	ppm	ASTM D5185(m)		<b>0</b>	3	0
Molybdenum	ppm	ASTM D5185(m)		<b>40</b>	7	60
Manganese	ppm	ASTM D5185(m)		<b>0</b>	2	<1
Magnesium	ppm	ASTM D5185(m)		<b>507</b>	45	976
Calcium	ppm	ASTM D5185(m)		<b>1752</b>	2116	1153
Phosphorus	ppm	ASTM D5185(m)		<b>762</b>	994	1090
Zinc	ppm	ASTM D5185(m)		<b>877</b>	1182	1221
Sulfur	ppm	ASTM D5185(m)		<b>2266</b>	2829	2741
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

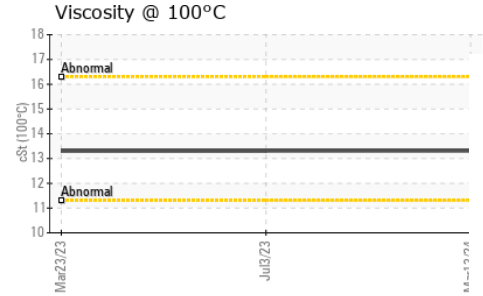
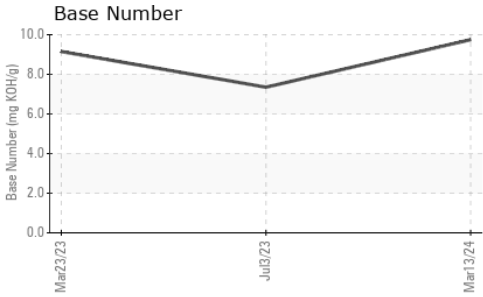
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	22	4
Sodium	ppm	ASTM D5185(m)	>118	<b>2</b>	4	2
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	8	<1

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.8</b>	6.0	5.6
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>22.1</b>	19.6	18.0



# OIL ANALYSIS REPORT

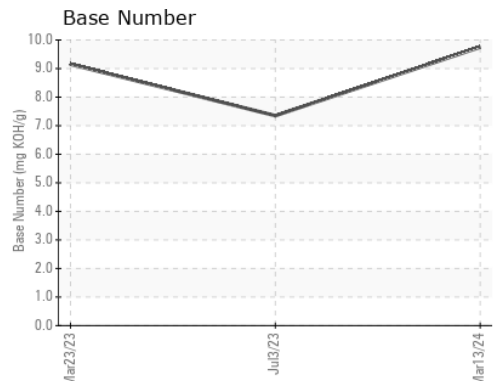
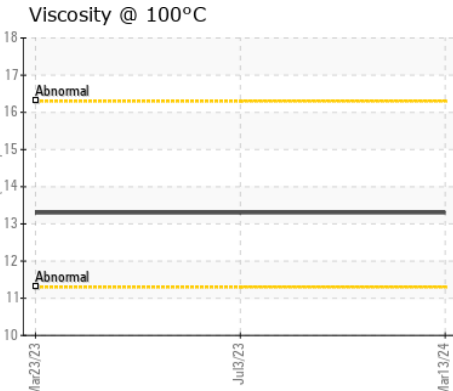
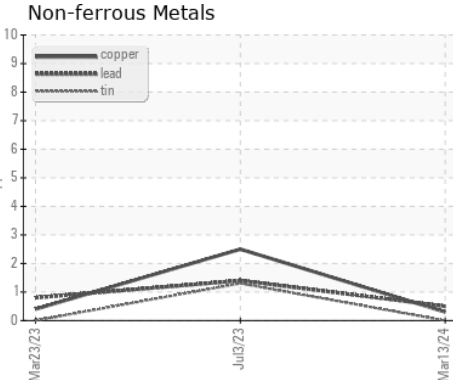
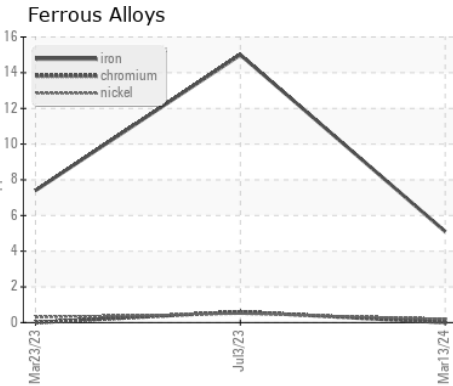


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>20.3</b>	15.7	13.8
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>9.75</b>	7.35	9.15

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)		<b>13.3</b>	13.3	13.3

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0832126      **Received** : 19 Mar 2024  
**Lab Number** : **02622964**      **Tested** : 20 Mar 2024  
**Unique Number** : 5748083      **Diagnosed** : 20 Mar 2024 - Wes Davis  
**Test Package** : FLEET

**GOLIATH ENERGY GROUP**  
 3277 PARSONS RD NW  
 EDMONTON, AB  
 CA T6N 1B4  
 Contact: Kurt Bromling  
 kurt@goliathenergy.com  
 T: (780)897-6262  
 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.