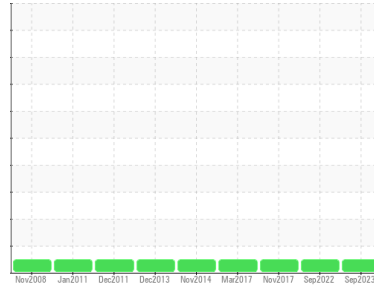




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**KOMATSU M0276**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 15W40 (27 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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>WC0764077</b>	WC0709881	WC103139
Sample Date	Client Info		<b>26 Sep 2023</b>	30 Sep 2022	27 Nov 2017
Machine Age	hrs	Client Info	<b>174</b>	137	1148
Oil Age	hrs	Client Info	<b>100</b>	63	80
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>9</b>	4	3
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	1	<1
Silver	ppm	ASTM D5185(m) >3	<b>2</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >20	<b>8</b>	2	1
Lead	ppm	ASTM D5185(m) >40	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185(m) >330	<b>3</b>	<1	<1
Tin	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	2
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) 250	<b>6</b>	8	43
Barium	ppm	ASTM D5185(m) 10	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185(m) 100	<b>4</b>	6	<1
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185(m) 450	<b>58</b>	86	9
Calcium	ppm	ASTM D5185(m) 3000	<b>2278</b>	2295	2278
Phosphorus	ppm	ASTM D5185(m) 1150	<b>888</b>	858	982
Zinc	ppm	ASTM D5185(m) 1350	<b>1015</b>	945	1180
Sulfur	ppm	ASTM D5185(m) 4250	<b>3081</b>	2937	3225
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>5</b>	5	2
Sodium	ppm	ASTM D5185(m) >158	<b>3</b>	7	2
Potassium	ppm	ASTM D5185(m) >20	<b>37</b>	16	6
Glycol	%	ASTM D7922*	<b>0.0</b>	0.0	0.0

## INFRA-RED

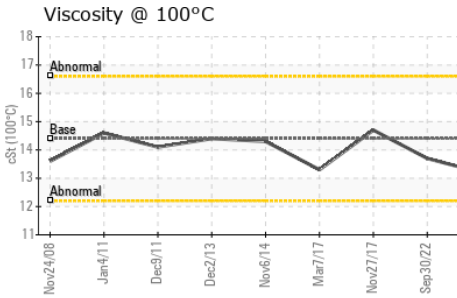
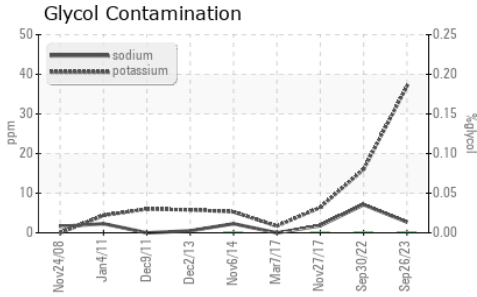
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.1</b>	0	0
Nitration	Abs/cm	ASTM D7624* >20	<b>7.0</b>	6.7	6.9
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>16.4</b>	24.1	24.5

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	<b>10.0</b>	19.4	16.7



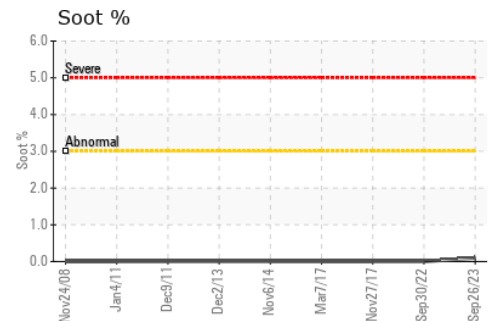
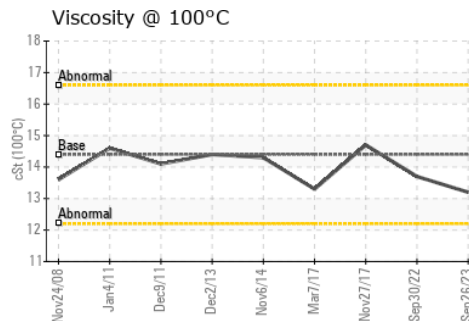
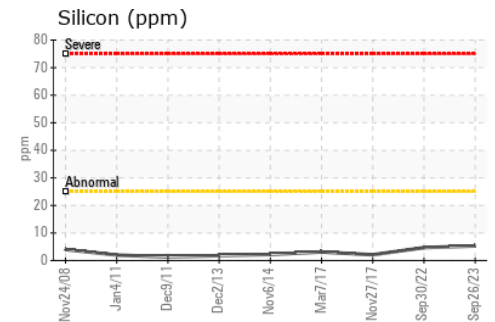
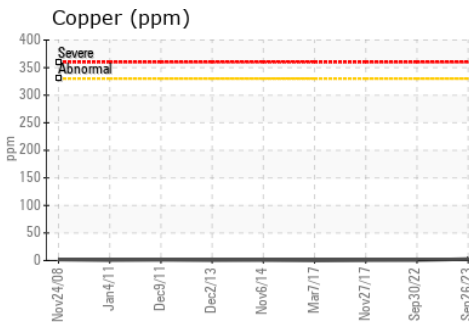
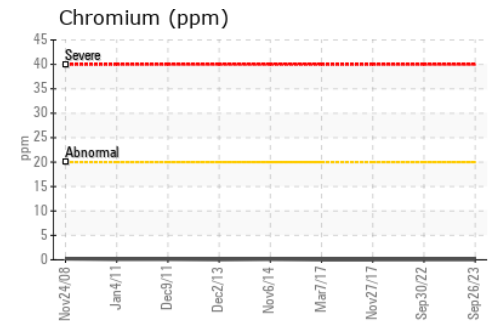
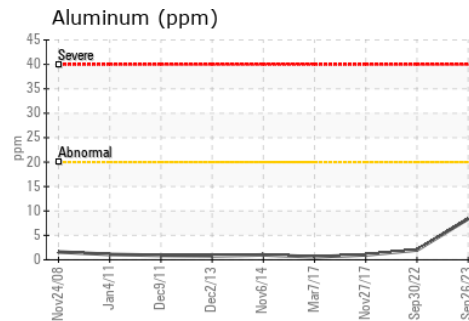
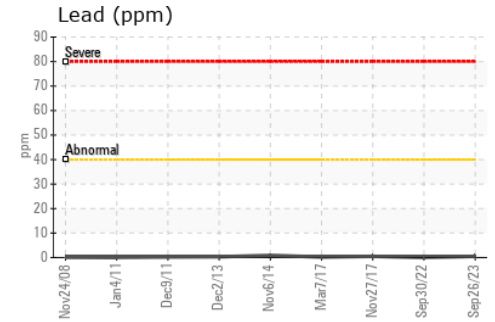
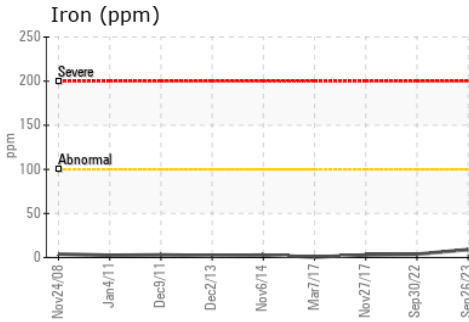
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.2	13.7

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0764077 **Received** : 04 Oct 2023  
**Lab Number** : 02586684 **Diagnosed** : 04 Oct 2023  
**Unique Number** : 5655750 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**GENCARE SERVICES LTD.**  
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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.