

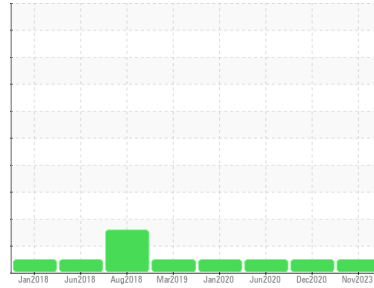
# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Machine Id  
**KOMATSU WA500 3LK WA500 (S/N A72093)**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON HP 15W40 (8 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.

### 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>PCA0109611</b>	PCA0023176	PCA0023078
Sample Date	Client Info			<b>01 Nov 2023</b>	21 Dec 2020	01 Jun 2020
Machine Age	hrs Client Info			<b>23033</b>	21907	21707
Oil Age	hrs Client Info			<b>553</b>	200	250
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
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
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 D5185m	>100		<b>6</b>	4	6
Chromium	ppm ASTM D5185m	>20		<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185m	>4		<b>0</b>	<1	<1
Titanium	ppm ASTM D5185m			<b>0</b>	1	<1
Silver	ppm ASTM D5185m	>3		<b>0</b>	0	0
Aluminum	ppm ASTM D5185m	>20		<b>&lt;1</b>	1	1
Lead	ppm ASTM D5185m	>40		<b>7</b>	3	3
Copper	ppm ASTM D5185m	>330		<b>0</b>	1	1
Tin	ppm ASTM D5185m	>15		<b>&lt;1</b>	<1	0
Antimony	ppm ASTM D5185m			<b>---</b>	0	0
Vanadium	ppm ASTM D5185m			<b>0</b>	0	0
Cadmium	ppm ASTM D5185m			<b>0</b>	<1	0

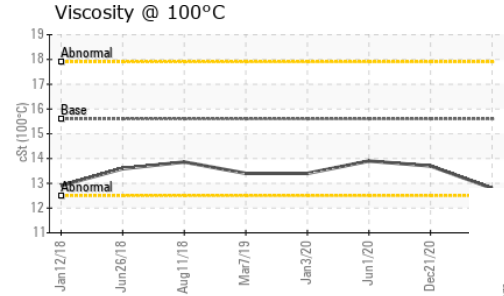
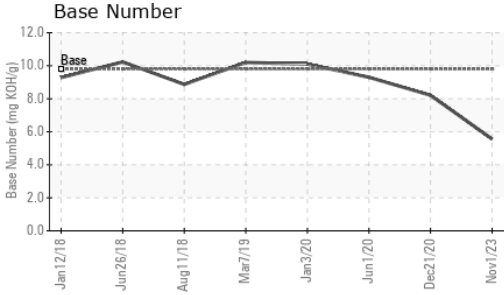
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m			<b>18</b>	10	5
Barium	ppm ASTM D5185m			<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m			<b>70</b>	59	57
Manganese	ppm ASTM D5185m			<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m			<b>972</b>	969	1041
Calcium	ppm ASTM D5185m			<b>1161</b>	1121	1096
Phosphorus	ppm ASTM D5185m			<b>1132</b>	1069	1045
Zinc	ppm ASTM D5185m			<b>1348</b>	1275	1168
Sulfur	ppm ASTM D5185m			<b>3547</b>	2697	2614

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25		<b>3</b>	5	5
Sodium	ppm ASTM D5185m			<b>2</b>	4	3
Potassium	ppm ASTM D5185m	>20		<b>0</b>	0	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3		<b>0.8</b>	0.2	0.3
Nitration	Abs/cm *ASTM D7624	>20		<b>10.3</b>	8.3	8.9
Sulfation	Abs/.1mm *ASTM D7415	>30		<b>21.9</b>	20.5	21.3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25		<b>18.0</b>	16.6	17.8
Base Number (BN)	mg KOH/g ASTM D2896	9.8		<b>5.56</b>	8.21	9.3

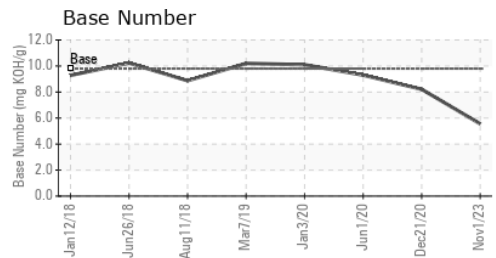
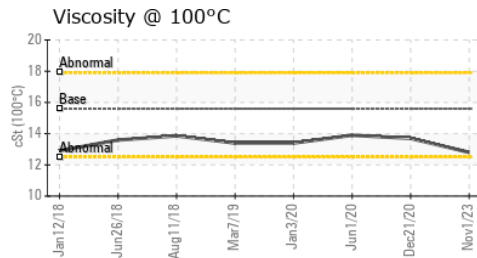
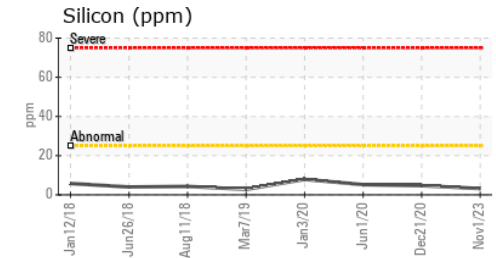
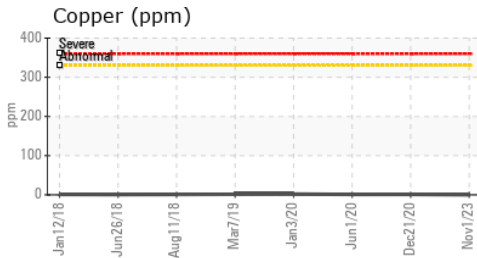
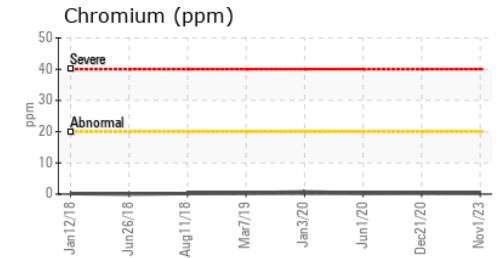
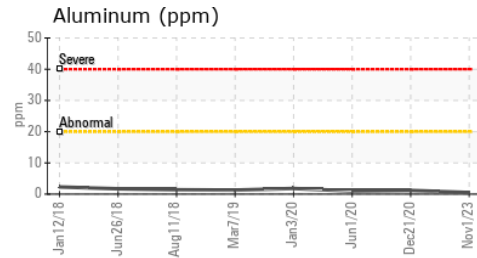
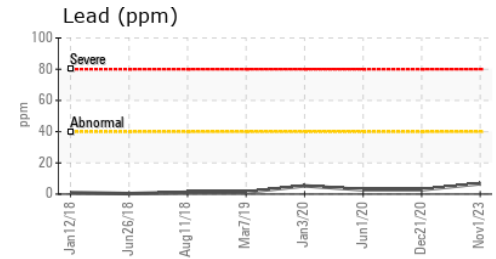
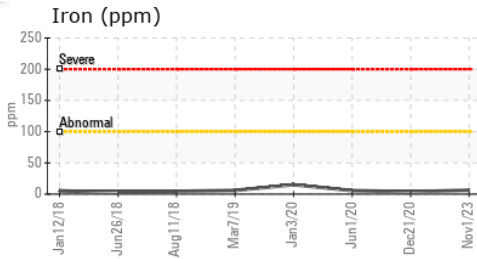
# OIL ANALYSIS REPORT



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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.6	<b>12.8</b>	13.7	13.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109611 **Received** : 11 Dec 2023  
**Lab Number** : **06031801** **Diagnosed** : 13 Dec 2023  
**Unique Number** : 10781592 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

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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)