



Machine Id  
**KOMATSU PC-240-LC-11 20-69 (S/N A95106)**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON XL SYN BLEND 15W40 (6 GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0056864</b>	PCA0056945	PCA0056893
Sample Date		Client Info		<b>18 Jan 2023</b>	06 Jul 2022	20 Jun 2022
Machine Age	hrs	Client Info		<b>7071</b>	6654	6639
Oil Age	hrs	Client Info		<b>95</b>	521	521
Filter Age	hrs	Client Info		<b>95</b>	521	521
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status				<b>MARGINAL</b>	SEVERE	SEVERE

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>8</b>	41	43
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>1</b>	6	6
Lead	ppm	ASTM D5185m	>40	<b>1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	1	1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

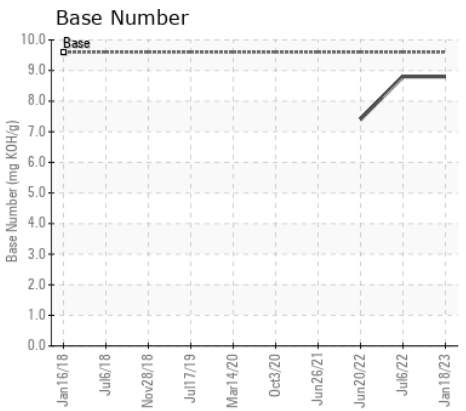
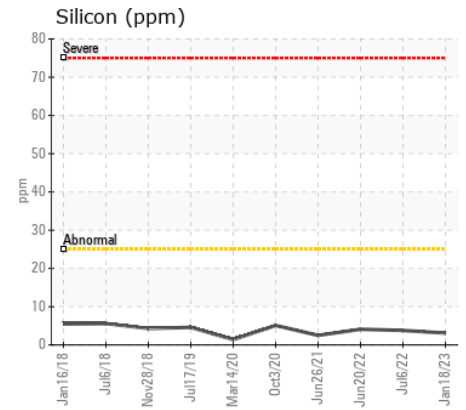
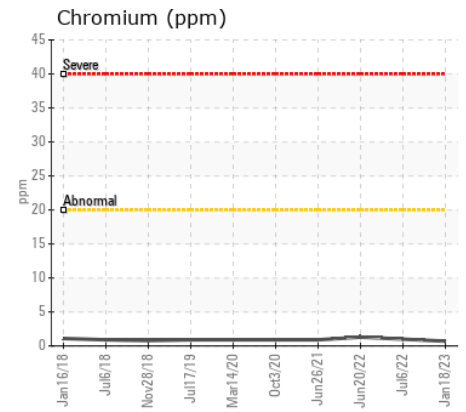
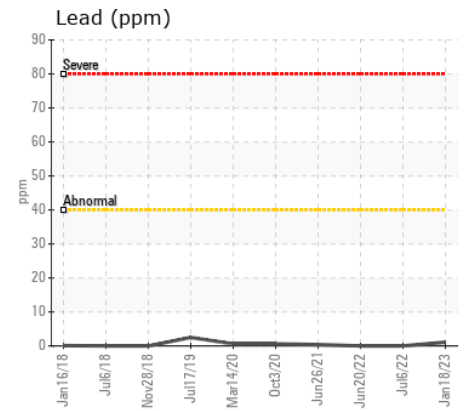
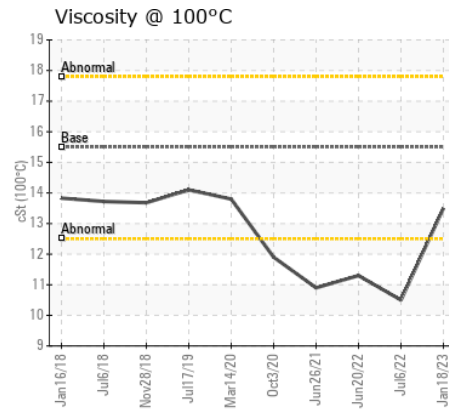
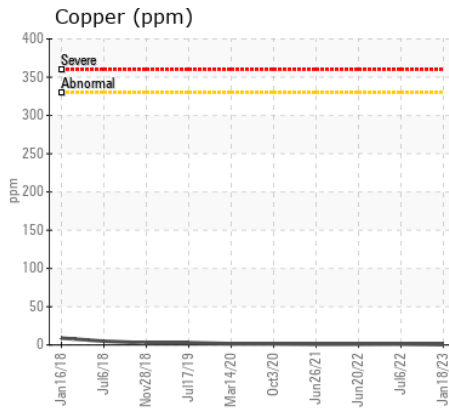
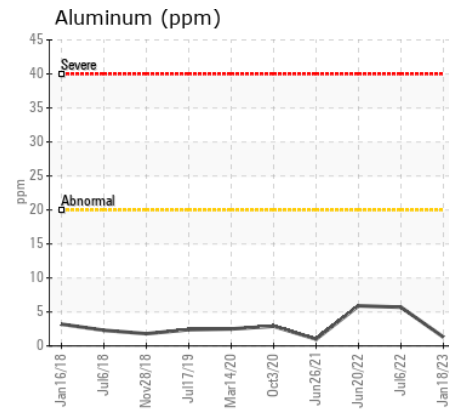
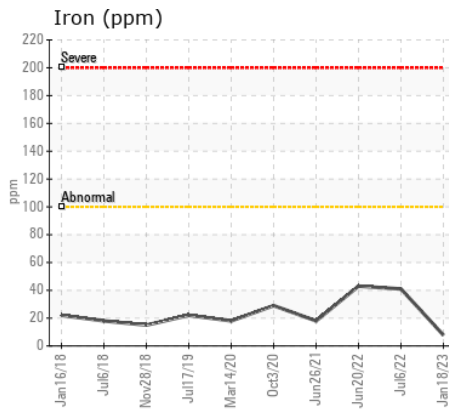
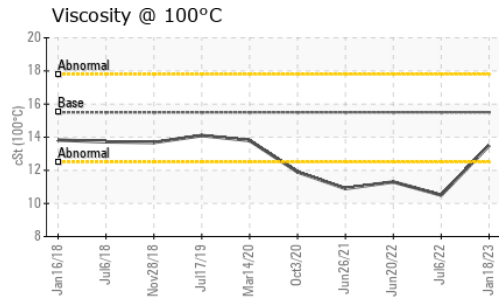
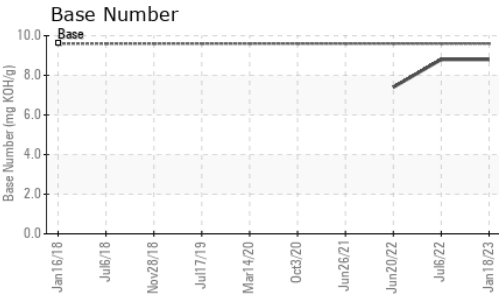
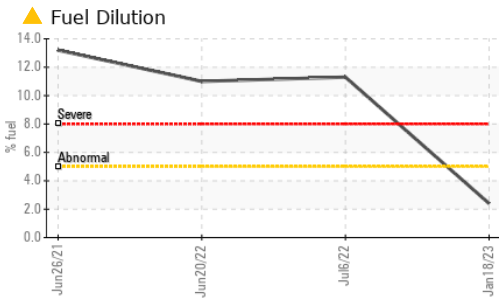
Light fuel dilution occurring.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	2
Fuel	%	ASTM D3524	>5	<b>▲ 2.4</b>	■ 11.3	■ 11.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.8</b>	10.9	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.0</b>	21.1	19.7
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	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

### 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.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Boron	ppm	ASTM D5185m	1	<b>5</b>	42	46
Barium	ppm	ASTM D5185m	1	<b>4</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>46</b>	56	53
Manganese	ppm	ASTM D5185m	1	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>715</b>	396	404
Calcium	ppm	ASTM D5185m	1070	<b>1198</b>	1530	1451
Phosphorus	ppm	ASTM D5185m	1150	<b>913</b>	892	902
Zinc	ppm	ASTM D5185m	1270	<b>1131</b>	1112	1120
Sulfur	ppm	ASTM D5185m	2060	<b>3345</b>	3372	2770
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.4</b>	18.0	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	<b>8.8</b>	8.8	7.4
Visc @ 100°C	cSt	ASTM D445	15.5	<b>13.5</b>	▲ 10.5	▲ 11.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0056864 **Received** : 24 Jan 2023  
**Lab Number** : 05747718 **Diagnosed** : 25 Jan 2023  
**Unique Number** : 10307322 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel, TBN )

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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)