



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
KOMATSU WA-320-6 30-42 (S/N A35279)
Component
Diesel Engine
Fluid
PETRO CANADA DURON XL SYN BLEND 15W40 (6 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0035984	PCA0007986	PCA0002289
Sample Date		Client Info		19 Jun 2021	14 Jan 2021	14 Nov 2019
Machine Age	hrs	Client Info		13372	12758	11912
Oil Age	hrs	Client Info		614	846	1
Filter Age	hrs	Client Info		614	846	1
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	23	26	18
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	2
Lead	ppm	ASTM D5185m	>40	<1	0	2
Copper	ppm	ASTM D5185m	>330	2	7	61
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

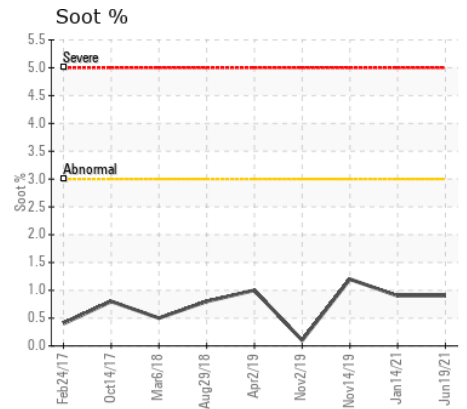
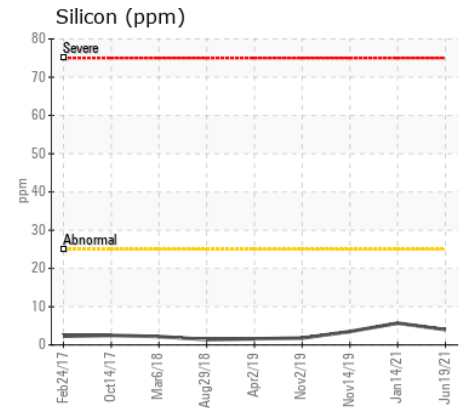
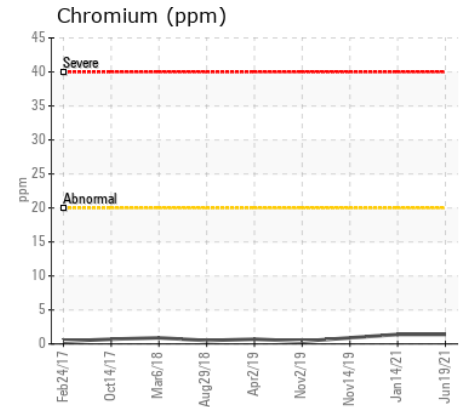
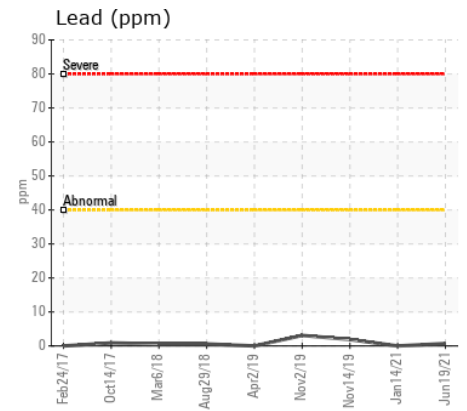
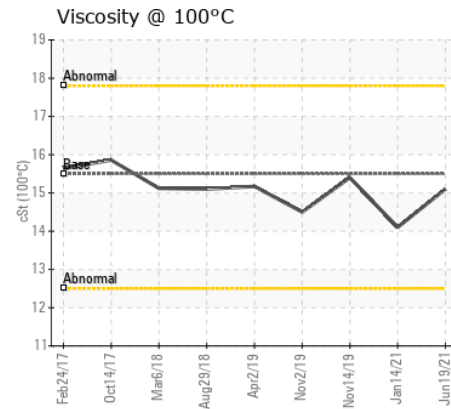
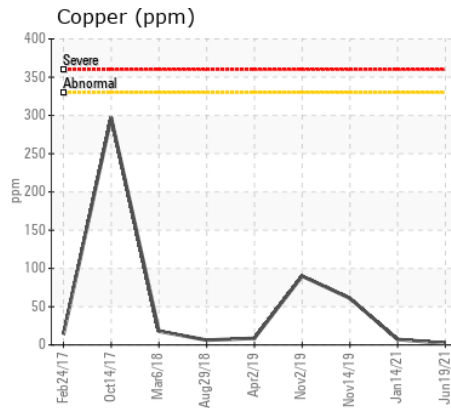
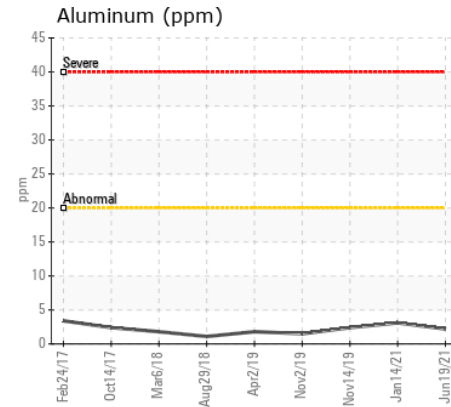
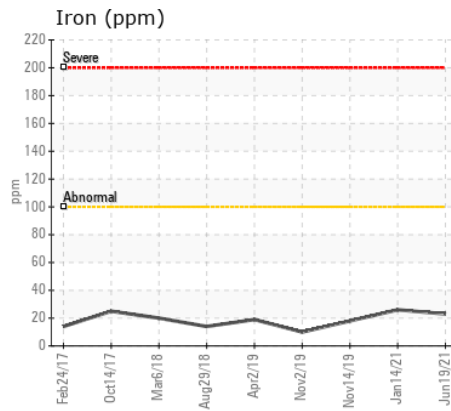
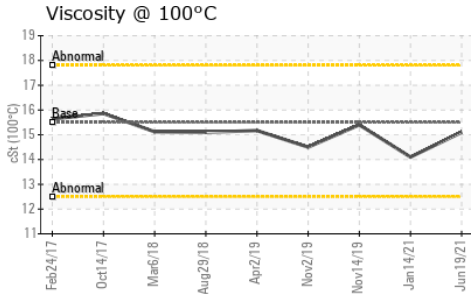
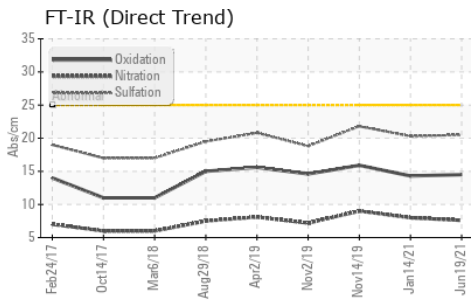
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	4	6	4
Potassium	ppm	ASTM D5185m	>20	<1	7	4
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.9	0.9	1.2
Nitration	Abs/cm	*ASTM D7624	>20	7.6	8	9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	20.3	21.8
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	2	2
Boron	ppm	ASTM D5185m	1	14	3	4
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	59	58
Manganese	ppm	ASTM D5185m	1	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	886	894	1018
Calcium	ppm	ASTM D5185m	1070	1216	1170	1131
Phosphorus	ppm	ASTM D5185m	1150	1028	981	969
Zinc	ppm	ASTM D5185m	1270	1235	1158	1162
Sulfur	ppm	ASTM D5185m	2060	2736	2345	2287
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	14.3	15.9
Visc @ 100°C	cSt	ASTM D445	15.5	15.1	14.1	15.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0035984 **Received** : 20 Jul 2021
Lab Number : 05307508 **Tested** : 21 Jul 2021
Unique Number : 9591477 **Diagnosed** : 21 Jul 2021 - Wes Davis
Test Package : MOB 1

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 US 33462
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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)