



WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
KOMATSU 6845
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- 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		PC0083002	PC0071355	PC0071357
Sample Date		Client Info		02 Apr 2024	07 Dec 2023	27 Sep 2023
Machine Age	hrs	Client Info		14440	13190	12455
Oil Age	hrs	Client Info		128	735	544
Filter Age	hrs	Client Info		128	735	544
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				MARGINAL	SEVERE	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	5	32	24
Chromium	ppm	ASTM D5185(m)	>20	0	2	1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	2	1
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	<1	<1	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

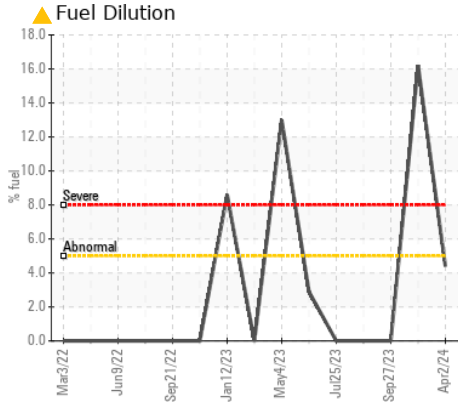
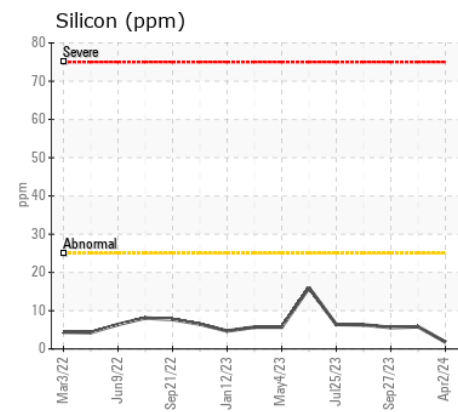
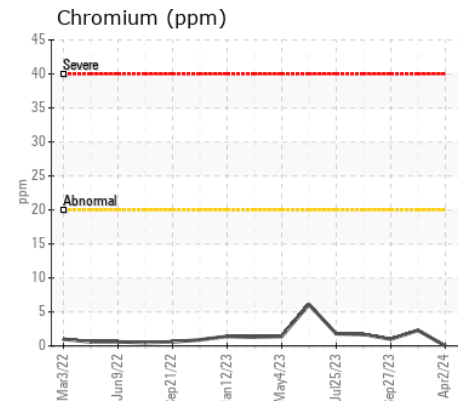
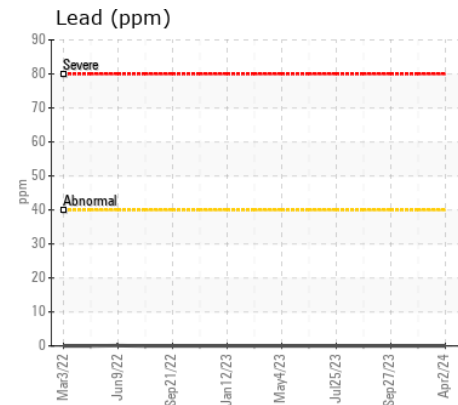
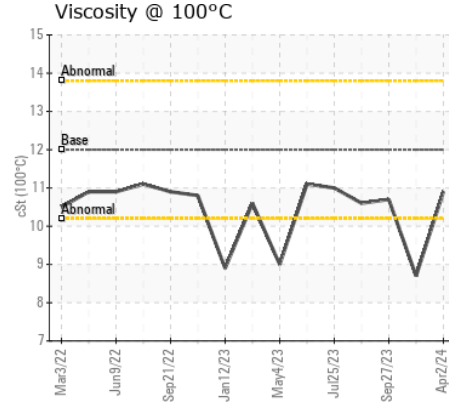
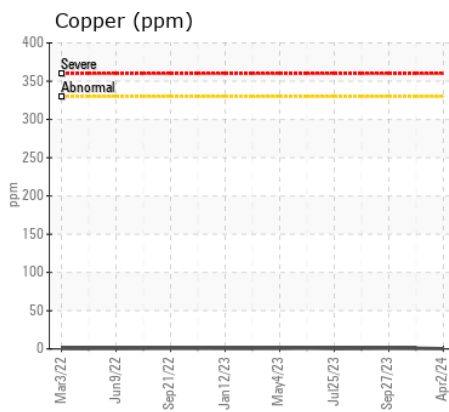
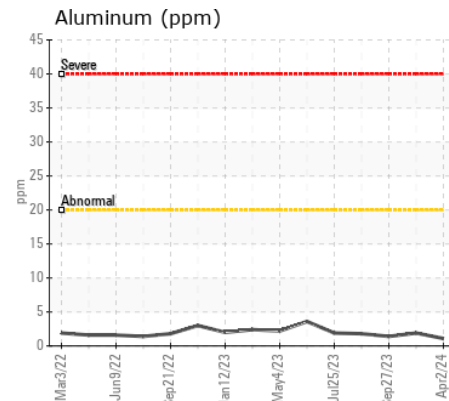
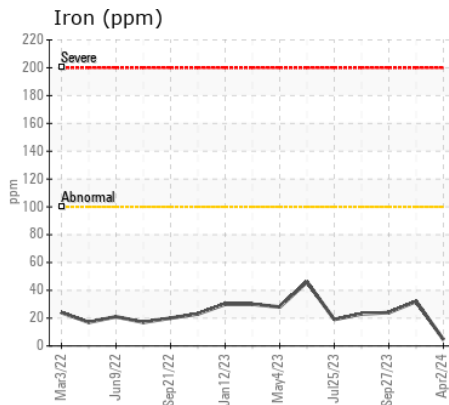
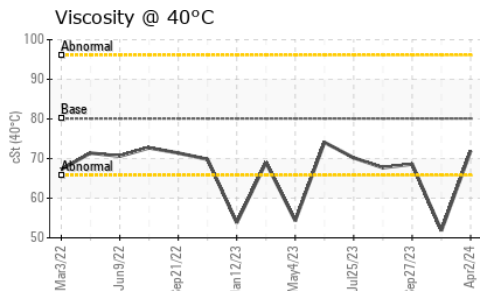
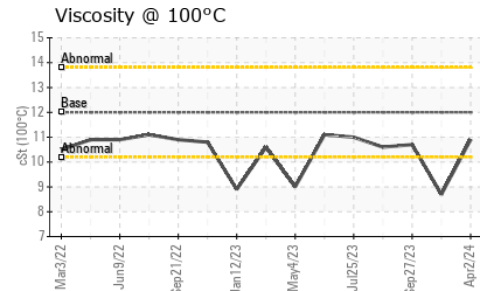
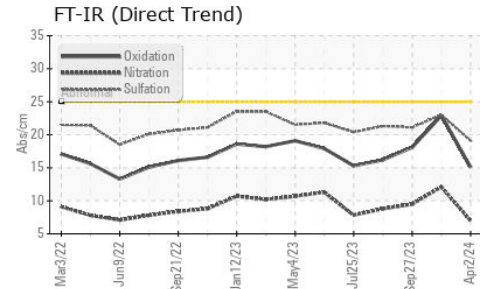
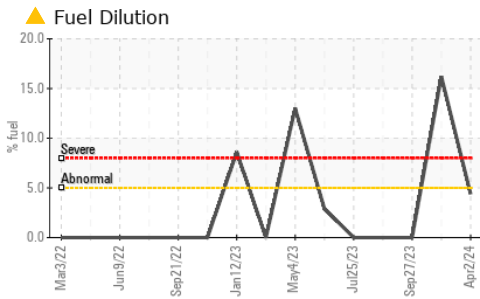
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	6	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>5	▲ 4.4	▲ 16.2	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	0.8	0.6
Nitration	Abs/cm	ASTM D7624*	>20	7.0	12.1	9.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.1	23.0	21.1
Silt	scalar	Visual*	NONE	VLITE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	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 D5185(m)		2	7	17
Boron	ppm	ASTM D5185(m)	2	1	2	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	56	50	61
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	950	933	782	941
Calcium	ppm	ASTM D5185(m)	1050	1001	860	1018
Phosphorus	ppm	ASTM D5185(m)	995	977	823	959
Zinc	ppm	ASTM D5185(m)	1180	1128	957	1162
Sulfur	ppm	ASTM D5185(m)	2600	2540	2083	2361
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.1	22.9	18.1
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	71.9	▲ 51.8	68.6
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.9	▲ 8.7	10.7
Viscosity Index (VI)	Scale	ASTM D2270*	144	141	145	145



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083002 **Received** : 16 Apr 2024
Lab Number : **02629117** **Tested** : 17 Apr 2024
Unique Number : 5762249 **Diagnosed** : 17 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, PercentFuel, VI, Visual)

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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.