



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area

[300093417]

Machine Id

KUBOTA X1140 MCP732

Component

Diesel Engine

Fluid

PETRO CANADA DURON HP 15W40 (--- GAL)

## RECOMMENDATION

Check for low coolant level. No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0892408	WC0879677	WC0861357
Sample Date		Client Info		16 Jan 2024	14 Dec 2023	05 Dec 2023
Machine Age	hrs	Client Info		3316	3247	3241
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	N/A	Changed
Filter Changed		Client Info		Not Chngd	N/A	N/A
Sample Status				ATTENTION	SEVERE	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	39	10	52
Chromium	ppm	ASTM D5185(m)	>20	3	<1	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	6	3	25
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	9	2	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

## CONTAMINATION

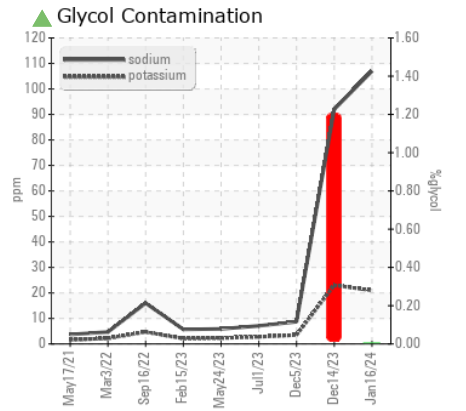
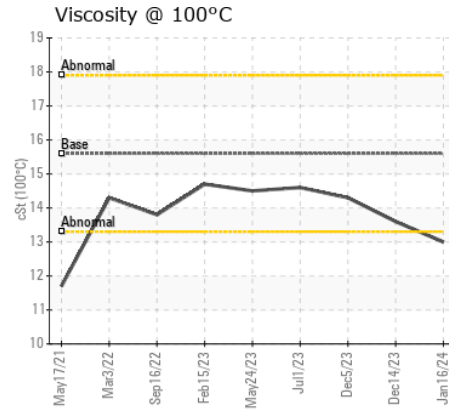
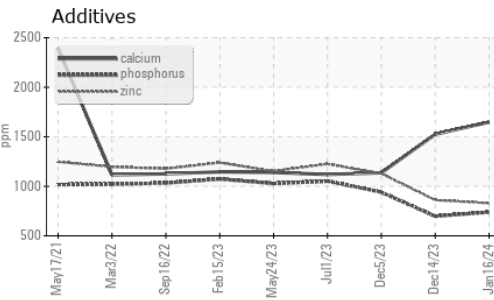
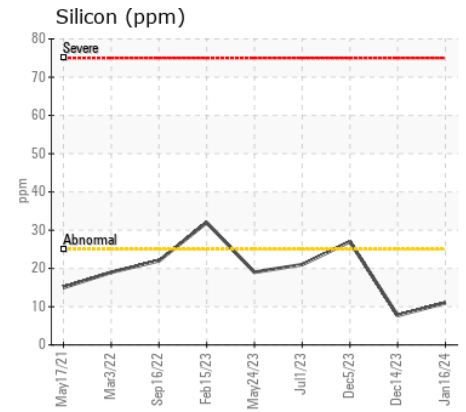
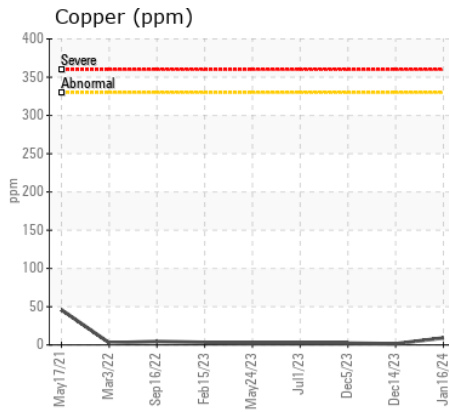
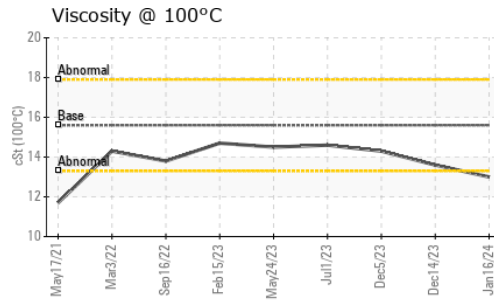
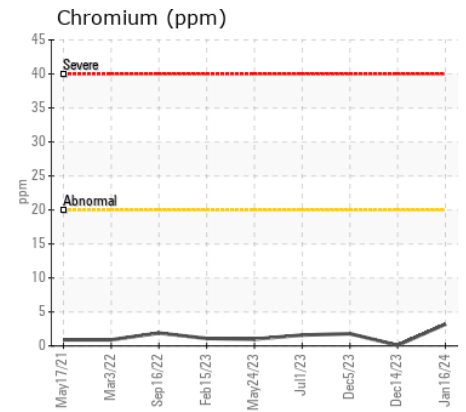
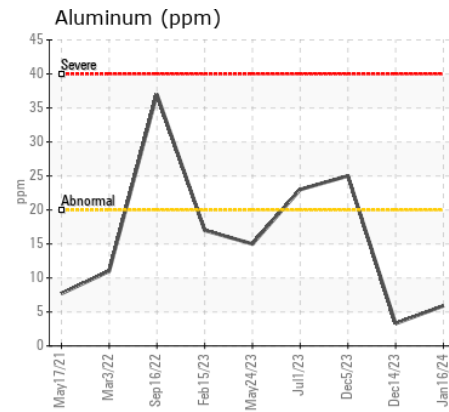
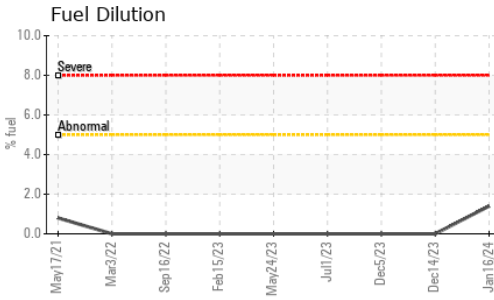
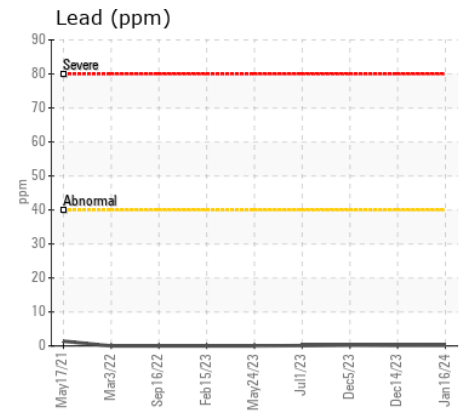
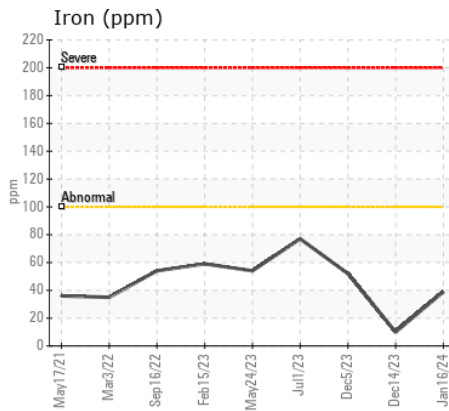
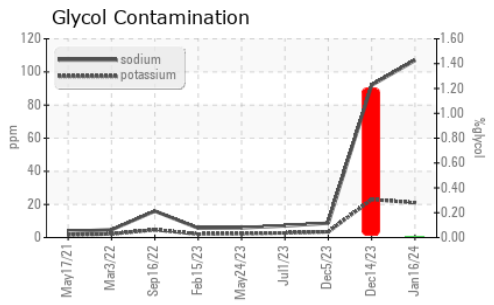
Light fuel dilution occurring. Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	11	8	▲ 27
Potassium	ppm	ASTM D5185(m)	>20	21	▲ 23	4
Fuel	%	ASTM D7593*	>5	1.4	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	🔴 1.203	NEG
Soot %	%	ASTM D7844*	>3	0.1	0	0.5
Nitration	Abs/cm	ASTM D7624*	>20	6.3	6.5	7.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.7	18.1	20.0
Emulsified Water	scalar	Visual*	>0.2	NEG	▲ .2%	NEG

## FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service (see recommendation).

Sodium	ppm	ASTM D5185(m)		▲ 107	▲ 92	9
Boron	ppm	ASTM D5185(m)	0	48	42	6
Barium	ppm	ASTM D5185(m)	0	1	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	44	41	57
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	518	486	914
Calcium	ppm	ASTM D5185(m)	1070	1648	1525	1136
Phosphorus	ppm	ASTM D5185(m)	1150	739	698	940
Zinc	ppm	ASTM D5185(m)	1270	829	861	1129
Sulfur	ppm	ASTM D5185(m)	2060	2172	2134	2421
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.1	18.7	15.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.0	13.6	14.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0892408 **Received** : 23 Jan 2024  
**Lab Number** : 02610543 **Diagnosed** : 26 Jan 2024  
**Unique Number** : 5711629 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

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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.