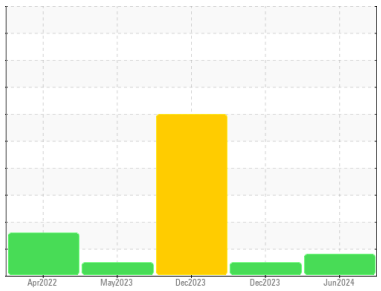
OIL ANALYSIS REPORT

Sample Rating Trend



SOOT

Machine Id
KUBOTA 900RTV MCP723
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

DIAGNOSIS

Recommendation
The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill.

Wear
Metal levels are typical for a new component breaking in.

Contamination
Fuel content negligible. Light concentration of carbon/soot present in the oil.

Fluid Condition
Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0930768**	WC0892401	WC0861368
Sample Date		Client Info		**26 Jun 2024**	24 Dec 2023	04 Dec 2023
Machine Age	kms	Client Info		**2837**	2635	2618
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	N/A	Changed
Sample Status				**ABNORMAL**	NORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	**100**	24	74
Chromium	ppm	ASTM D5185(m)	>20	**4**	1	4
Nickel	ppm	ASTM D5185(m)	>4	**<1**	0	<1
Titanium	ppm	ASTM D5185(m)		**<1**	0	0
Silver	ppm	ASTM D5185(m)	>3	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>20	**46**	30	▲ 113
Lead	ppm	ASTM D5185(m)	>40	**0**	<1	<1
Copper	ppm	ASTM D5185(m)	>330	**2**	1	5
Tin	ppm	ASTM D5185(m)	>15	**<1**	0	0
Antimony	ppm	ASTM D5185(m)		**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**35**	47	23
Barium	ppm	ASTM D5185(m)	0	**<1**	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	**55**	48	86
Manganese	ppm	ASTM D5185(m)	0	**1**	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	**665**	586	1003
Calcium	ppm	ASTM D5185(m)	1070	**1695**	1465	1123
Phosphorus	ppm	ASTM D5185(m)	1150	**819**	776	1000
Zinc	ppm	ASTM D5185(m)	1270	**1018**	882	1188
Sulfur	ppm	ASTM D5185(m)	2060	**2107**	2187	2496
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**20**	10	19
Sodium	ppm	ASTM D5185(m)		**6**	4	9
Potassium	ppm	ASTM D5185(m)	>20	**2**	0	2
Fuel	%	ASTM D7593*	>5	**0.3**	<1.0	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	▲ **4**	0.5	1.2
Nitration	Abs/cm	ASTM D7624*	>20	**13.3**	5.9	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	**30.5**	22.1	21.5

OIL ANALYSIS REPORT

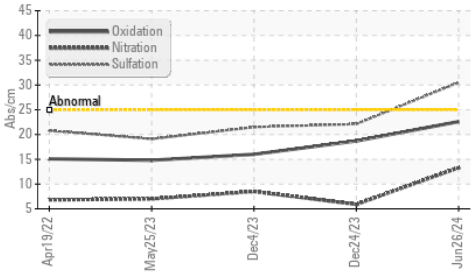
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**22.6**	18.7	16.0

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

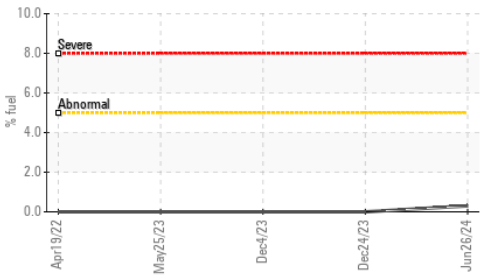
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	**16.0**	14.0	15.1

GRAPHS

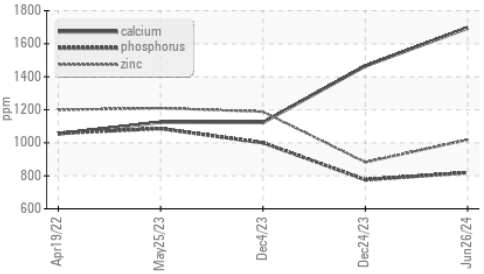
FT-IR (Direct Trend)



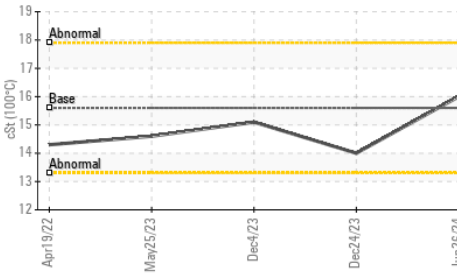
Fuel Dilution



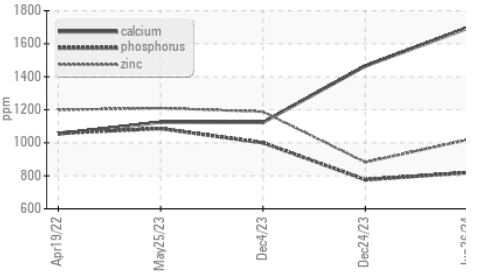
Additives



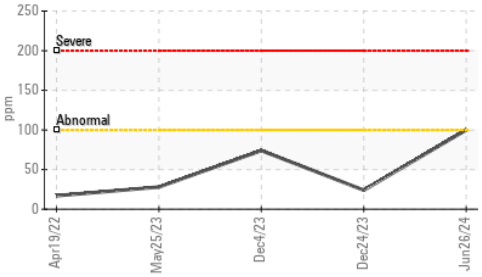
Viscosity @ 100°C



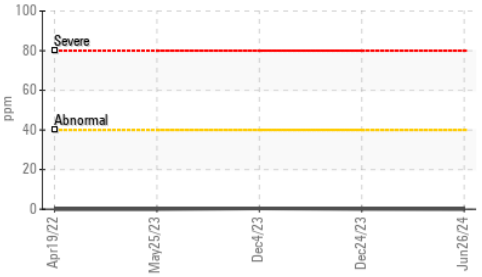
Additives



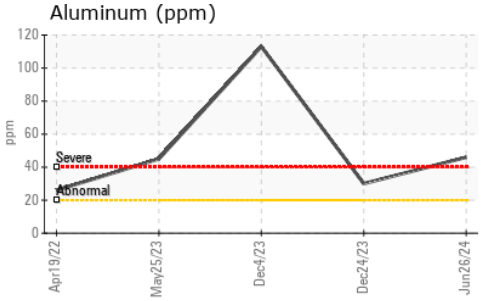
Iron (ppm)



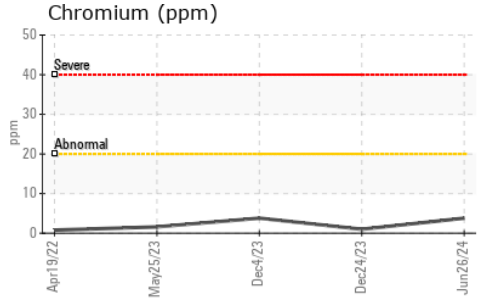
Lead (ppm)



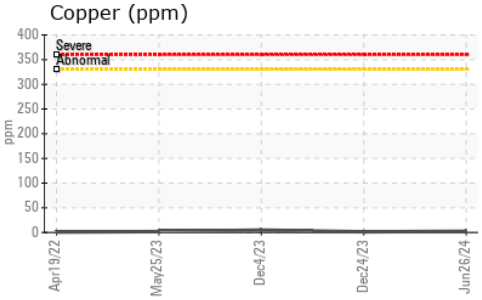
Aluminum (ppm)



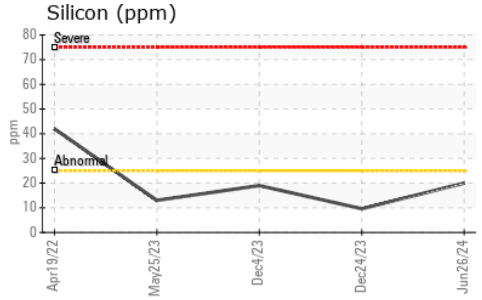
Chromium (ppm)



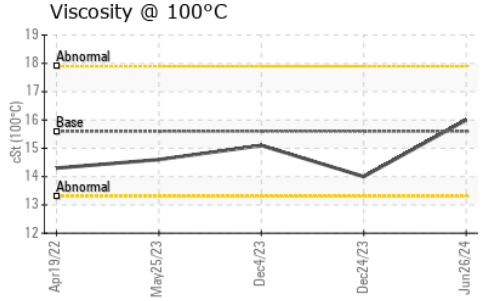
Copper (ppm)



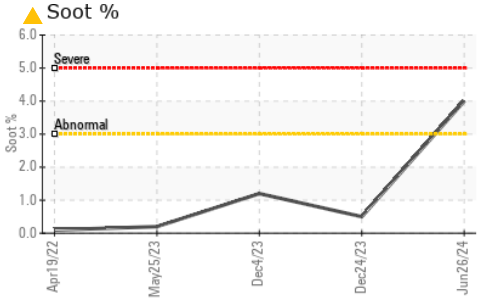
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0930768 **Received** : 04 Jul 2024
Lab Number : 02645417 **Tested** : 05 Jul 2024
Unique Number : 5802956 **Diagnosed** : 05 Jul 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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.

Agnico Eagle Canada
1350 Government Rd. W, MACASSA COMPLEX
Kirkland Lake, ON
CA P2N 3J1
Contact: Jay Gould
MacassaMobileUGPlanning@agnicoeagle.com
T: (705)567-5208
F: (705)567-5221