

## **OIL ANALYSIS REPORT**

Sample Number

Sample Date

Machine Age

Oil Age

### Vessel KAT 012 (Main Engine) Component

Main Engine PETRO CANADA CM MHP 153 (1000 LTR)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid. this testkit includes BN to determine the suitability of the oil for continued use. (Customer Sample Comment: Kat 012)

#### Wear

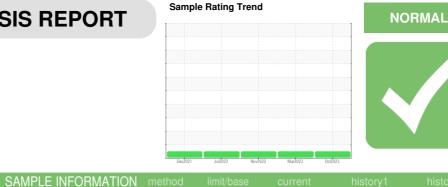
Component wear rates appear to be normal (unconfirmed).

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

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



Client Info

Client Info

**Client Info** 

Client Info

kms

kms



Oll Age	KIIIS	Client Into		100020	0	100400
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>25	5	6	4
Chromium	ppm	ASTM D5185(m)	>5	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>3	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>10	1	2	1
Lead	ppm	ASTM D5185(m)	>5	<1	<1	0
Copper	ppm	ASTM D5185(m)	>5	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	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)		3	2	3
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		2	3	2
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		55	55	45
Calcium	ppm	ASTM D5185(m)		5343	5438	5391
Phosphorus	ppm	ASTM D5185(m)		869	959	952
Zinc	ppm	ASTM D5185(m)	1090	991	980	980
Sulfur	ppm	ASTM D5185(m)		9374	9314	8874
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	9	6	6
Sodium	ppm	ASTM D5185(m)	>75	1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>2	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.9	7.3	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	12.7	16.7	14.3
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	6.3	7.2	7.5
3:54:25) Rev: 1					Submitte	d By: Alf Hartery

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Submitted By: Alf Hartery



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