

# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id MACK 20173

Component Natural Gas Engine

## Fluid PETRO CANADA 15W40 (--- GAL)

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0007333		
Sample Date		Client Info		06 Jun 2024		
Machine Age	hrs	Client Info		7183		
Oil Age	hrs	Client Info		476		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	8		
Chromium	ppm	ASTM D5185m	>5	<1		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m	>5	1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m		3		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>150	1		
Tin	ppm	ASTM D5185m	>4	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		17		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		53		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		535		
Calcium	ppm	ASTM D5185m		1577		
Phosphorus	ppm	ASTM D5185m		637		
Zinc	ppm	ASTM D5185m		928		
Sulfur	ppm	ASTM D5185m		2392		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	17		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0		
Nitration	Abs/cm	*ASTM D7624	>20	9.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9		
Base Number (BN)	mg KOH/g	ASTM D2896		5.7		



3

30

2!

Abs/cm

10

6.0 4 KOH/g)

Du

... 9.0

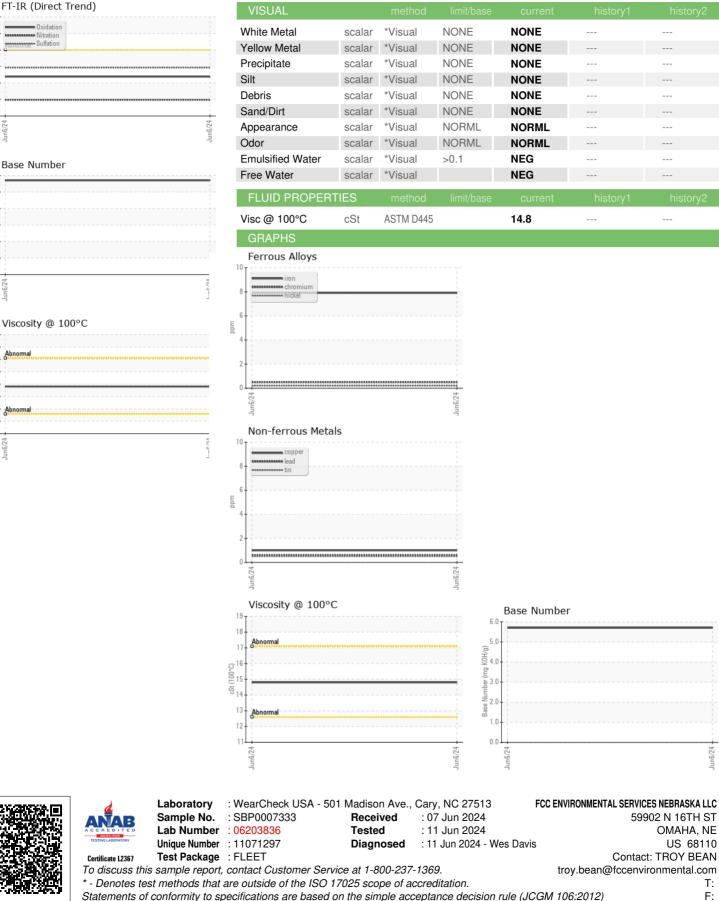
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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: TROY BEAN

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