

# **OIL ANALYSIS REPORT**

### Sample Rating Trend

NORMAL



# FREIGHTLINER 7064

Component

**Diesel Engine** 

PETRO CANADA 15W40 (--- GAL)

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### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

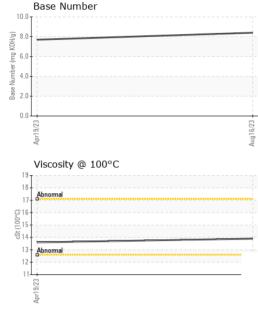
### **Fluid Condition**

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

			Apr2023	Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0001877	SBP0001887	
Sample Date		Client Info		16 Aug 2023	19 Apr 2023	
Machine Age	mls	Client Info		131720	121037	
Oil Age	mls	Client Info		10685	10000	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	26	25	
Chromium	ppm	ASTM D5185m		<1	1	
Nickel	ppm	ASTM D5185m	>2	0	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	. –	7	6	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	2	3	
Tin	ppm	ASTM D5185m		- <1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	3	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		60	60	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		991	1025	
Calcium	ppm	ASTM D5185m		1130	1223	
Phosphorus	ppm	ASTM D5185m		1012	1075	
Zinc	ppm	ASTM D5185m		1267	1339	
Sulfur	ppm	ASTM D5185m		3519	3536	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	
Sodium	ppm	ASTM D5185m		6	5	
Potassium	ppm	ASTM D5185m	>20	9	5	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	9.2	8.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	17.5	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	15.6	
Base Number (BN)	mg KOH/g	ASTM D2896		8.4	7.7	
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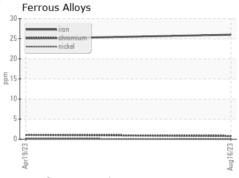
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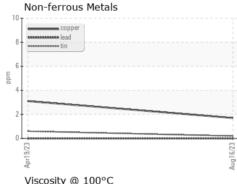


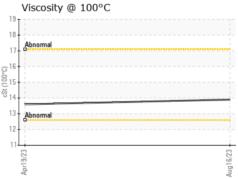
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	IFS	method	limit/base	current	history1	history2

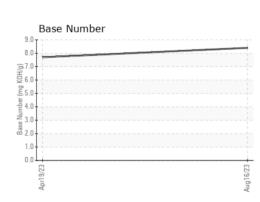
Visc @ 100°C	cSt	ASTM D445	13.9	13.6	

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10615402

: SBP0001877 : 05930131

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Aug 2023 Diagnosed

: 22 Aug 2023 Diagnostician : Wes Davis

Sapp Bros. Petroleum - Lincoln - LIN 9915 South 148th

OMAHA, NE US 68138

Contact: JEFF PETERSEN jpetersen@sappbros.net

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\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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