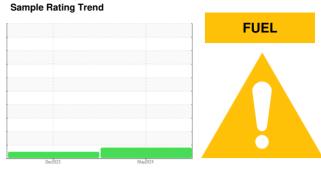


# **OIL ANALYSIS REPORT**

# **UPS CANADA FREIGHTLINER 174771**

**Diesel Engine** 

PETRO CANADA SUPREME 5W30 (--- GAL)



## **DIAGNOSIS**

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

)			Dec2023	May2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0085515	PC0085573	
Sample Date		Client Info		29 May 2024	19 Dec 2023	
Machine Age	kms	Client Info		50006	38046	
Oil Age	kms	Client Info		0	0	
Oil Changed		Client Info		Not Changd	N/A	
Sample Status				MARGINAL	NORMAL	
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAI	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>80	18	5	
Chromium	ppm	ASTM D5185(m)	>5	<1	0	
Nickel	ppm	ASTM D5185(m)	>2	<1	0	
Titanium	ppm	ASTM D5185(m)		<1	0	
Silver	ppm	ASTM D5185(m)	>3	0	0	
Aluminum	ppm	ASTM D5185(m)	>30	3	2	
Lead	ppm	ASTM D5185(m)	>30	0	0	
Copper	ppm	ASTM D5185(m)	>150	2	1	
 Γin	ppm	ASTM D5185(m)	>5	1	<1	
Antimony	ppm	ASTM D5185(m)		0	0	
/anadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	186	42	155	
Barium	ppm	ASTM D5185(m)	<1	0	0	
Molybdenum	ppm	ASTM D5185(m)	79	73	64	
Manganese	ppm	ASTM D5185(m)	0	<1	0	
Magnesium	ppm	ASTM D5185(m)	578	565	489	
Calcium	ppm	ASTM D5185(m)	1002	1250	1149	
Phosphorus	ppm	ASTM D5185(m)	745	712	602	
Zinc	ppm	ASTM D5185(m)	837	796	683	
Sulfur	ppm	ASTM D5185(m)	2502	2294	2268	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	15	26	
Sodium	ppm	ASTM D5185(m)		2	1	
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	
Fuel	%	ASTM D7593*	>5	<b>△</b> 3.3	<1.0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	
Nitration	Abs/cm	ASTM D7624*	>20	12.4	6.1	
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.6	16.0	



# OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: 02642846 Unique Number : 5800385

: PC0085515

**Tested** 

Validity of results and interpretation are based on the sample and information as supplied.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Petro-Canada Technical/Behshad Sabah Received : 19 Jun 2024

: 20 Jun 2024 Diagnosed

: 20 Jun 2024 - Wes Davis

Mississauga, ON CA L5J 1K2 Test Package : MOB 2 (Additional Tests: FuelDilution, KV40, PercentFuel, TAN Auto, TAN Man, VI. Visutact: Behshad Sabah Behshad.Sabah@hfsinclair.com

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.

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