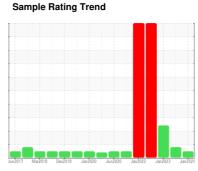


# **OIL ANALYSIS REPORT**

# 3000 Series Freightliner 3806T

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (26 LTR)





# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the

## Fluid Condition

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

SAMPLE INFORM	//ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0886646	WC0805726	WC0759740
Sample Date		Client Info		14 Jan 2024	30 Jul 2023	14 Jan 2023
Machine Age	mls	Client Info		291382	275168	251230
Oil Age	mls	Client Info		16216	8035	17379
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	ABNORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<b>▲</b> 1.7	<1.0
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)	>75	50	65	73
Chromium	ppm	ASTM D5185(m)	>5	3	4	4
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	21	26	<b>2</b> 3
Lead	ppm	ASTM D5185(m)	>25	0	<1	<1
Copper	ppm	ASTM D5185(m)	>100	4	6	20
Tin	ppm	ASTM D5185(m)	>4	<1	1	2
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	2	2	15
Barium	ppm	ASTM D5185(m)	0	0	<1	5
Molybdenum	ppm	ASTM D5185(m)	60	59	62	52
Manganese	ppm	ASTM D5185(m)	0	<1	3	10
Magnesium	ppm	ASTM D5185(m)	1010	933	1009	879
Calcium	ppm	ASTM D5185(m)	1070	1142	1107	1352
Phosphorus	ppm	ASTM D5185(m)	1150	980	1080	845
Zinc	ppm	ASTM D5185(m)	1270	1168	1220	945
Sulfur	ppm	ASTM D5185(m)	2060	2530	2297	2064
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	14	▲ 30
Sodium	ppm	ASTM D5185(m)		2	3	6
Potassium	ppm	ASTM D5185(m)	>20	30	42	34
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	1.1	1.1	0.6
Nitration	Abs/cm	ASTM D7624*	>20	13.9	13.8	11.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.9	28.5	24.7



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number Unique Number

: WC0886646 : 02608873

: 5709959 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 MANITOULIN TRANSPORT (GARAGE) Recieved : 16 Jan 2024 Diagnosed

: Wes Davis Diagnostician

: 16 Jan 2024

1335 SHAWSON DRIVE MISSISSAUGA, ON CA L4W 1C4

Contact: Travis Spence tspence@manitoulintransport.com

T: F: (905)564-6361

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.