

OIL ANALYSIS REPORT

Heater Local Carrier 81550H

Component **Trailer Diesel Engine** Fluid

PETRO CANADA DURON SHP 10W30 (5 LTR)

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

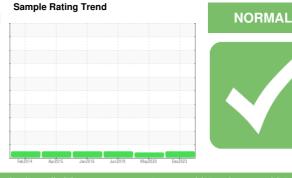
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

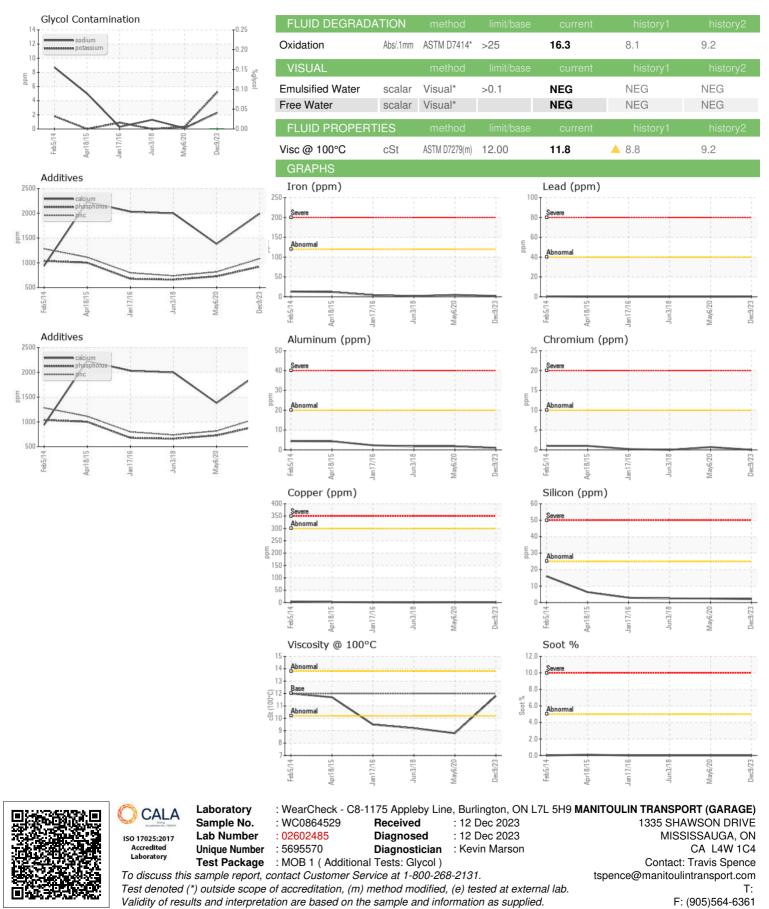
Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.



SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864529	WC0458615	WC0295834
Sample Date		Client Info		09 Dec 2023	06 May 2020	03 Jun 2018
Machine Age	hrs	Client Info		0	0	1188
Oil Age	hrs	Client Info		0	0	1188
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	1	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	2	5	2
Chromium	ppm	ASTM D5185(m)	>10	0	<1	0
Nickel	ppm	ASTM D5185(m)	>5	0	0	0
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>5	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	2	2
Lead	ppm	ASTM D5185(m)	>40	<1	0	0
Copper	ppm	ASTM D5185(m)	>300	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>10	<1	1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	<1	<1
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)	2	157	176	213
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	50	7	43	72
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	101	409	11
Calcium	ppm	ASTM D5185(m)	1050	1992	1381	1997
Phosphorus	ppm	ASTM D5185(m)	995	924	726	660
Zinc	ppm		1180	1083	816	736
Sulfur	ppm	ASTM D5185(m)	2600	2821	2650	2494
Lithium	ppm	ASTM D5185(m)		<1	<1	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	2	2
Sodium	ppm	ASTM D5185(m)		2	<1	1
Potassium	ppm	ASTM D5185(m)	>20	5	<1	0
Glycol	%	ASTM D7922*		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.4	5.8	4.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	19.1	15.9



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Contact/Location: Travis Spence - MANMIS