

OIL ANALYSIS REPORT

SAMPLE INFORMATION

Sample Number

Sample Rating Trend

Client Info

VISCOSITY

history2

WC0631633

4000 Series Navistar 4343

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (16 LTR)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA DURON SHP 15W40, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade on your next sample.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

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eb2020	May2020	Jul2020	Sep2020	Dec2020	Apr2021	0ct2021	Jul20

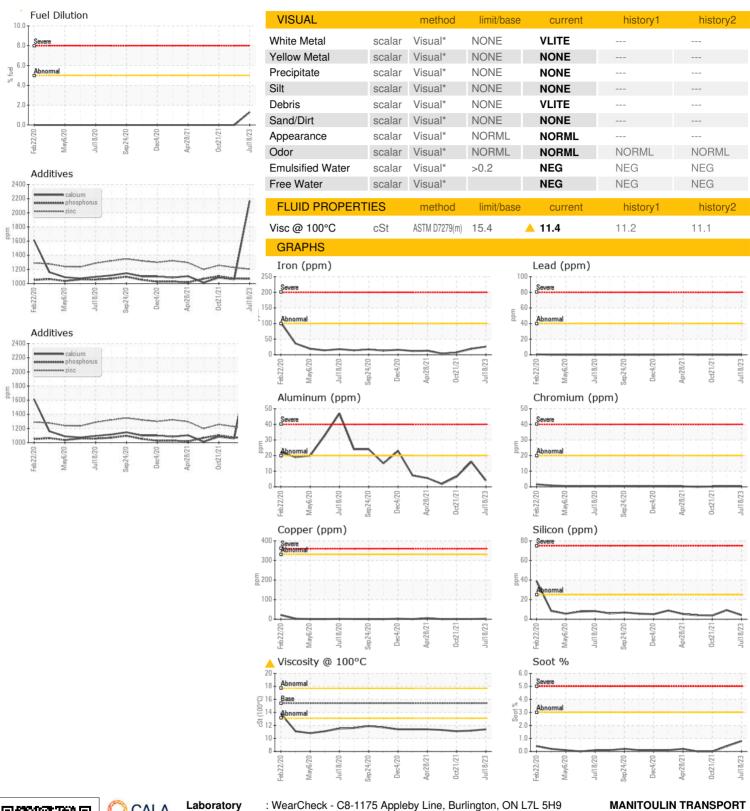
WC0466677

WC0651269

Sample Date		Client Info		18 Jul 2023	26 Jan 2022	21 Oct 2021
Machine Age	mls	Client Info		253396	130613	123830
Oil Age	mls	Client Info		192937	6787	3356
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Glycol	•	WC Method		NEG	0.0	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron						
	ppm	ASTM D5185(m)	>100	26 <1	19 <1	7
Chromium Nickel	ppm	ASTM D5185(m)		<1 <1	<1	<1 0
	ppm	ASTM D5185(m)	>4	0		0
Titanium Silver	ppm	ASTM D5185(m)	. 0	0	0	
	ppm	ASTM D5185(m)	>3	4	0	<1 6
Aluminum	ppm	ASTM D5185(m)			16 0	
Lead	ppm	ASTM D5185(m)	>40	0 2	1	0
Copper	ppm	ASTM D5185(m)				
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	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	26	5	11
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	12	60	60
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	156	1013	984
Calcium	ppm	ASTM D5185(m)	1070	2168	1060	1083
Phosphorus	ppm	ASTM D5185(m)	1150	1067	1072	1103
Zinc	ppm	ASTM D5185(m)	1270	1204	1226	1257
Sulfur	ppm	ASTM D5185(m)	2060	3192	2644	2784
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	9	4
Sodium	ppm	ASTM D5185(m)		6	12	3
Potassium	ppm	ASTM D5185(m)	>20	4	12	8
Fuel	%	ASTM D7593*	>5	1.3	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.8	0.4	0
Nitration	Abs/cm	ASTM D7624*	>20	12.4	7.6	6.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.9	19.8	19.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.6	14.4	14.4



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number **Unique Number**

: WC0466677 : 02576120

Received : 5629180

Diagnosed Diagnostician : Kevin Marson

: 16 Aug 2023 : 18 Aug 2023 **MANITOULIN TRANSPORT** 75 MUMFORD ROAD LIVELY, ON **CA P3Y 1L1**

Test Package : MOB 1 (Additional Tests: BottomAnalysis, FILTERPATCH, FuelDilution, PercentFuel, Visual) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Contact: Todd Smith tosmith@manitoulintransport.com

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.

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