

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id **51503** Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (--- L

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. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. 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 oil.

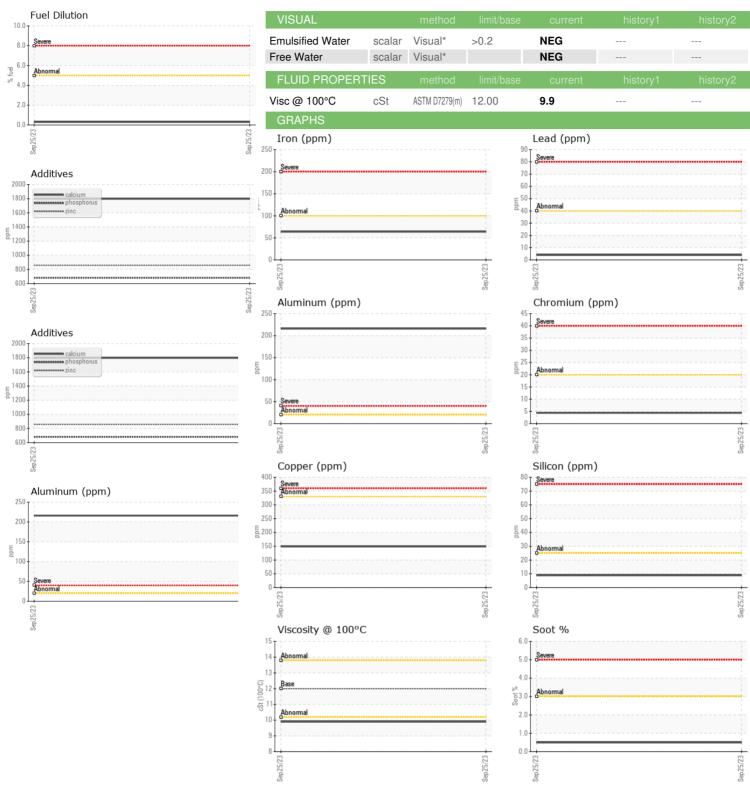
Fluid Condition

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.

TR)				Sep 2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0828341		
Sample Date		Client Info		25 Sep 2023		
Machine Age	mls	Client Info		35901		
Oil Age	mls	Client Info		35552		
Oil Changed	0	Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>100	64		
Chromium	ppm	ASTM D5185(m)	>20	4		
Nickel	ppm	ASTM D5185(m)	>4	1		
Γitanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>20	216		
_ead	ppm	ASTM D5185(m)	>40	4		
Copper	ppm	ASTM D5185(m)	>330	149		
Γin	ppm	ASTM D5185(m)	>15	4		
Antimony	ppm	ASTM D5185(m)		0		
/anadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	31		
Barium	ppm	ASTM D5185(m)	0	<1		
Molybdenum	ppm	ASTM D5185(m)	50	41		
Manganese	ppm	ASTM D5185(m)		3		
Magnesium	ppm	ASTM D5185(m)	950	505		
Calcium	ppm	ASTM D5185(m)	1050	1797		
Phosphorus	ppm	ASTM D5185(m)	995	682		
Zinc	ppm	ASTM D5185(m)	1180	859		
Sulfur	ppm	ASTM D5185(m)	2600	1585		
_ithium	ppm	ASTM D5185(m)	2000	<1		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	9		
Sodium	ppm	ASTM D5185(m)		8		
Potassium	ppm	ASTM D5185(m)	>20	417		
-uel	%	ASTM D7593*	>5	0.3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.5		
Vitration	Abs/cm	ASTM D7624*	>20	9.6		
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.4		
FLUID DEGRADA	ATION _	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	24.5		



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CALA ISO 17025:2017 Accredited Laboratory

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

: WC0828341 : 02586356

: 5655422

Received

: 03 Oct 2023 Diagnosed Diagnostician : Kevin Marson

: 04 Oct 2023

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 MANITOULIN TRANSPORT (GARAGE) 1335 SHAWSON DRIVE MISSISSAUGA, ON **CA L4W 1C4**

Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) Contact: Travis Spence To discuss this sample report, contact Customer Service at 1-800-268-2131. tspence@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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