

OIL ANALYSIS REPORT

Sample Rating Trend **NORMAL**



Machine Id 413154 Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (--- 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.

Wear

Metal levels are typical for a new component breaking in.

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

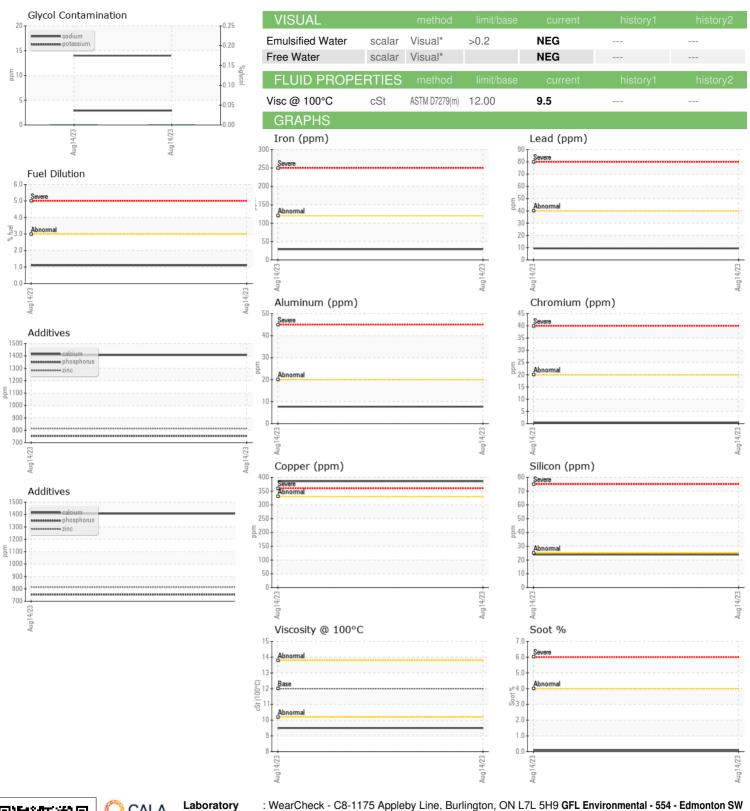
Fluid Condition

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.

ON SHP 10W30 (LTR)			Aug2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090626		
Sample Date		Client Info		14 Aug 2023		
Machine Age	hrs	Client Info		583		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	29		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>5	4		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	<1		
Aluminum	ppm	ASTM D5185(m)	>20	8		
Lead	ppm	ASTM D5185(m)	>40	9		
Copper	ppm	ASTM D5185(m)	>330	386		
Tin	ppm	ASTM D5185(m)	>15	3		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
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ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	226		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	50	121		
Manganese	ppm	ASTM D5185(m)	0	3		
Magnesium	ppm	ASTM D5185(m)	950	719		
Calcium	ppm	ASTM D5185(m)	1050	1407		
Phosphorus	ppm	ASTM D5185(m)	995	754		
Zinc	ppm	ASTM D5185(m)	1180	815		
Sulfur	ppm	ASTM D5185(m)	2600	2334		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	24		
Sodium	ppm	ASTM D5185(m)		3		
Potassium	ppm	ASTM D5185(m)	>20	14		
Fuel	%	ASTM D7593*	>3.0	1.1		
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.1		
Nitration	Abs/cm	ASTM D7624*	>20	9.8		
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.8		
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.7		



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CALA ISO 17025:2017 Accredited Laboratory

Report Id: GFL554 [WCAMIS] 02577039 (Generated: 08/23/2023 07:57:08) Rev: 1

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

: GFL0090626

: 5630099

Received : 02577039

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

Diagnosed Diagnostician : Kevin Marson

: 21 Aug 2023 : 23 Aug 2023

8409 -15th Street NW Edmonton, AB **CA T6P 0B8** Contact: Tim Greig

tgreig@gflenv.com

Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel) 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.

Contact/Location: Tim Greig - GFL554

T:

F: