

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Component Front Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 LTR)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time. 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. Please specify the component make and model with 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.

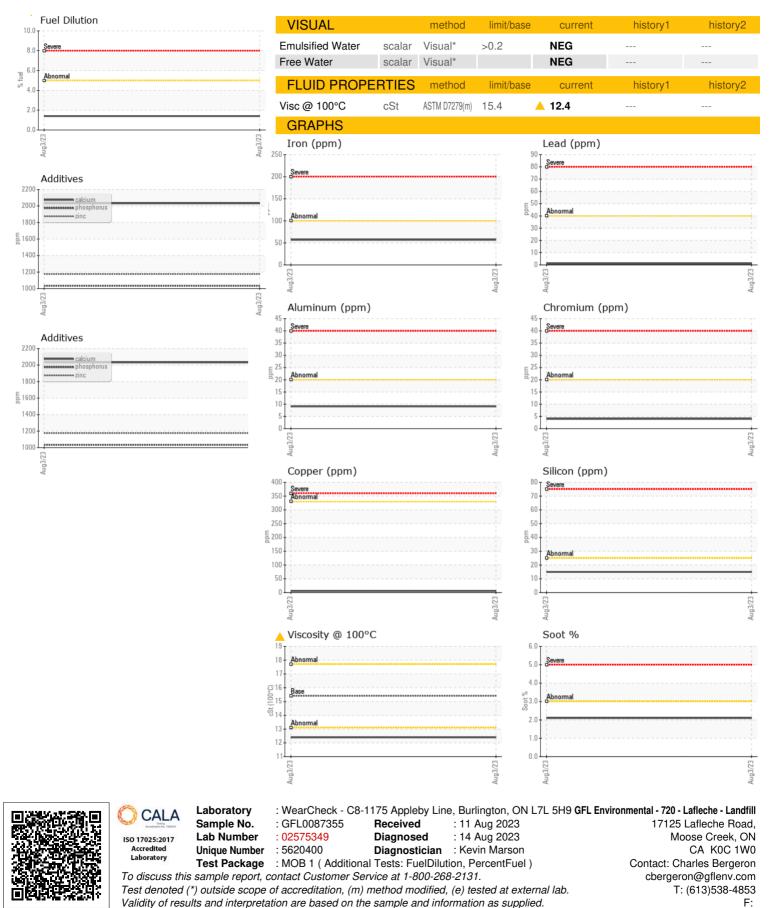
,				Aug2023		
SAMPLE INFOR		method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087355		
Sample Date		Client Info		03 Aug 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>100	57		
Chromium	ppm	ASTM D5185(m)	>20	4		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		90		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	9		
Lead	ppm	ASTM D5185(m)	>40	1		
Copper	ppm	ASTM D5185(m)	>330	6		
Tin	ppm	ASTM D5185(m)	>15	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		<1		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	89		
Barium	ppm	ASTM D5185(m)	0	0		
Volybdenum	ppm	ASTM D5185(m)	60	4		
Manganese	ppm	ASTM D5185(m)	0	<1		
Magnesium	ppm	ASTM D5185(m)	1010	378		
Calcium	ppm	ASTM D5185(m)	1070	2032		
Phosphorus	ppm	ASTM D5185(m)	1150	1034		
Zinc	ppm	ASTM D5185(m)	1270	1175		
Sulfur	ppm	ASTM D5185(m)	2060	2859		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	15		
Sodium	ppm	ASTM D5185(m)		6		
Potassium	ppm	ASTM D5185(m)	>20	4		
Fuel	%	ASTM D7593*	>5	1.4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	2.1		
Nitration	Abs/cm	ASTM D7624*	>20	10.0		
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.1		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
FLUID DEGRA Oxidation		method ASTM D7414*	limit/base	current 15.4	history1	history2

Report Id: GFL720 [WCAMIS] 02575349 (Generated: 08/14/2023 09:05:16) Rev: 1

Submitted By: Charles Bergeron



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