

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY





WL0424 Component

Diesel Engine

PETRO CANADA DURO

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.

Wear

Metal levels are typical for a new component breaking in.

Contamination

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

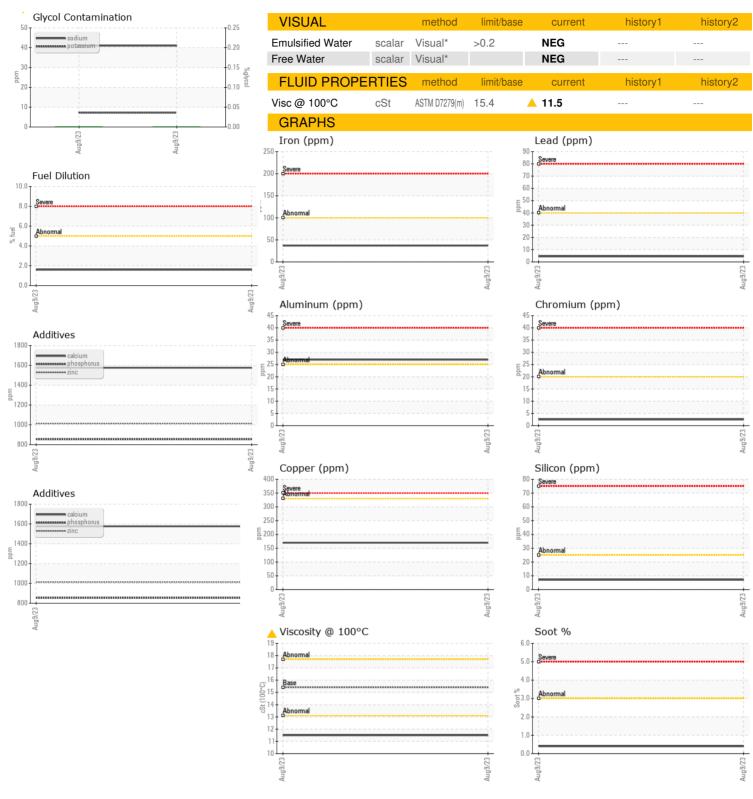
Fluid Condition

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.

N SHP 15W40 (- GAL)			wg2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0077021		
Sample Date		Client Info		09 Aug 2023		
Machine Age	kms	Client Info		5470		
Oil Age	kms	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>100	37		
Chromium	ppm	ASTM D5185(m)	>20	2		
Nickel	ppm	ASTM D5185(m)	>2	<1		
itanium	ppm	ASTM D5185(m)	>2	<1		
Silver	ppm	ASTM D5185(m)	>2	0		
Numinum	ppm	ASTM D5185(m)	>25	27		
.ead	ppm	ASTM D5185(m)	>40	4		
Copper	ppm	ASTM D5185(m)	>330	170		
īn	ppm	ASTM D5185(m)	>15	0		
Intimony	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)	0	17		
Barium	ppm	ASTM D5185(m)	0	0		
Nolybdenum	ppm	ASTM D5185(m)	60	57		
Manganese	ppm	ASTM D5185(m)	0	<1		
/lagnesium	ppm	ASTM D5185(m)	1010	546		
Calcium	ppm	ASTM D5185(m)	1070	1576		
hosphorus	ppm	ASTM D5185(m)	1150	854		
linc	ppm	ASTM D5185(m)	1270	1014		
Sulfur	ppm	ASTM D5185(m)	2060	2304		
ithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7		
Sodium	ppm	ASTM D5185(m)		41		
otassium	ppm	ASTM D5185(m)	>20	7		
uel	%	ASTM D7593*	>5	1.6		
Slycol	%	ASTM D7922*		0.0		
		method	limit/base	current	history1	history2
INFRA-RED						
	%	ASTM D7844*	>3	0.4		
Soot %	% Abs/cm	ASTM D7844* ASTM D7624*	>3 >20	0.4 11.3		
Soot % Vitration						
INFRA-RED Soot % Nitration Sulfation FLUID DEGRAD	Abs/cm Abs/.1mm	ASTM D7624* ASTM D7415*	>20	11.3		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: GFL0077021

: 5620703

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling Received : 02575652

Diagnosed

: 15 Aug 2023 Diagnostician : Kevin Marson

: 14 Aug 2023 Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel)

38950 Queens Way, Squamish, BC CA V8B 0K8 Contact: Jonas Araujo jaraujo@gflenv.com

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

T:

F: