

OIL ANALYSIS REPORT

HYDRO 599

Component **Diesel Engine**

PETRO CANADA 15W40 (--- GAL)

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

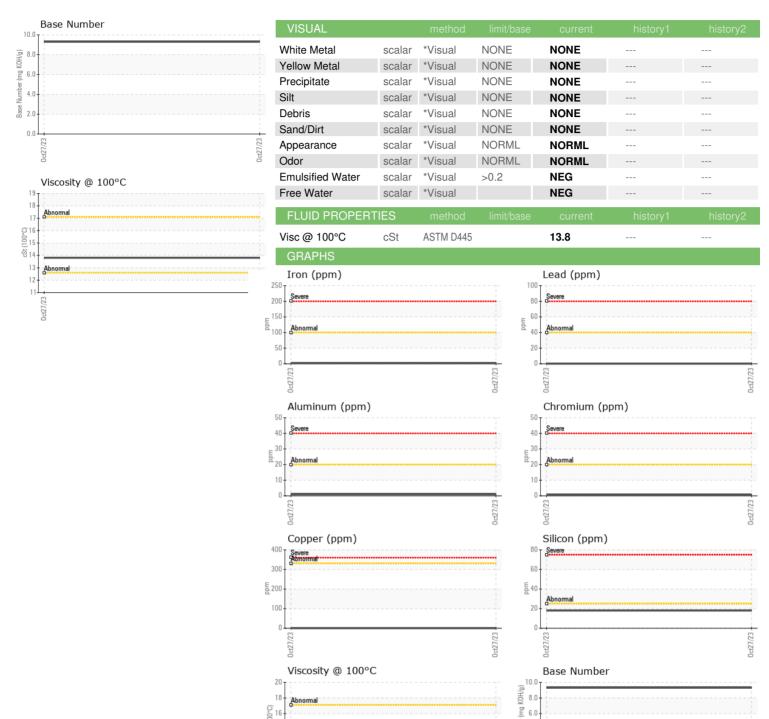
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

				Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0868149		
Sample Date		Client Info		27 Oct 2023		
Machine Age	hrs	Client Info		1078		
Oil Age	hrs	Client Info		371		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	2		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	1		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	0		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		22		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		57		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		874		
Calcium	ppm	ASTM D5185m		997		
Phosphorus	ppm	ASTM D5185m		979		
Zinc	ppm	ASTM D5185m		1171		
Sulfur	ppm	ASTM D5185m		3019		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	18		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	4.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.8		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
12010 020111101					•	•
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.4		



OIL ANALYSIS REPORT







Certificate L2367

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

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: 05997217 : 10725577 Test Package : MOB 1 (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0868149 Received Diagnosed

: 03 Nov 2023 Diagnostician : Wes Davis

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

C.L. BENTON & SONS INC

Contact/Location: NEIL ? - CLBMYR

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: 02 Nov 2023