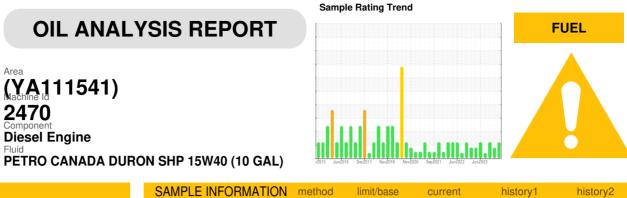


OIL ANALYSIS REPORT



current

history1

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Area

2470

(YA111541)

Diesel Engine

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

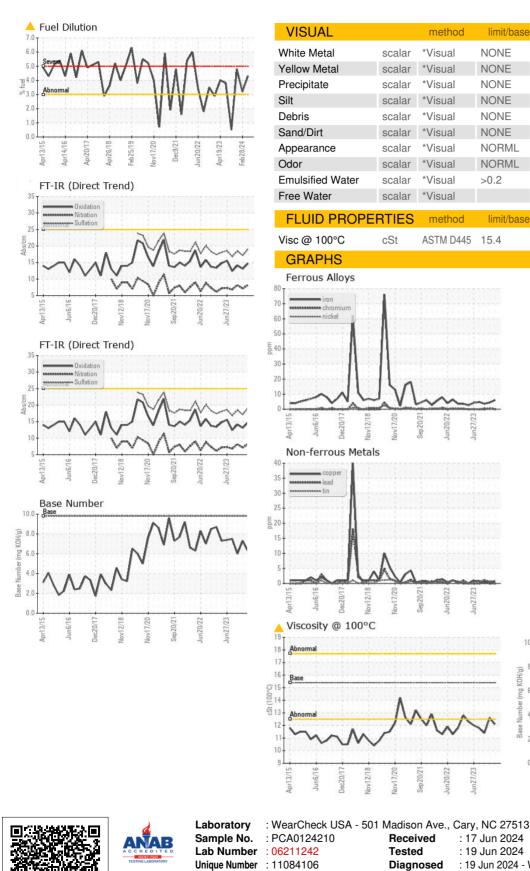
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sample Date Client Info 13 Jun 2024 28 Feb 2024 09 Jan 2024 Machine Age hrs Client Info 24942 24410 24147 Oil Age hrs Client Info 532 263 785 Oil Changed Client Info Changed NEG	SAIVIFLE INFOR		methou	IIIIII/Dase	Current	TISTOLAL	TISTOL A
Machine Age hrs Client Info 24942 24410 24147 Oil Age hrs Client Info 532 263 785 Oil Changed Client Info S32 263 785 Sample Status Client Info Changed Changed ABNORMAL ABNORMAL ABNORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Wetar WC Method >0.2 NEG NEG NEG Wetar ppm ASTM D5185m >120 6 4 4 Chromium ppm ASTM D5185m >20 0 <1 0 Nickel ppm ASTM D5185m >20 3 33 3 3 Lead ppm ASTM D5185m >330 <1 <1 1 1 Cadmium ppm ASTM D5185m 0 0 0 0	Sample Number		Client Info		PCA0124210	PCA0101758	PCA0101781
Oil Age hrs Client Info 532 263 785 Oil Changed Client Info Changed Changed Changed Changed Changed Changed Changed ABNORMAL ABNORMAL	Sample Date		Client Info		13 Jun 2024	28 Feb 2024	09 Jan 2024
Oil Changed Sample Status Client Info Changed ABNORMAL Changed ABNORMAL Changed ABNORMAL Changed ABNORMAL CONTAMINATION method imit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >12.0 6 4 4 Chromium ppm ASTM D5185m >2.0 0 <1	Machine Age	hrs	Client Info		24942	24410	24147
Sample Status Method Imit/base Current history1 ABNORMAL ABNORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >120 6 4 4 Chromium ppm ASTM D5185m >20 0 <1	Oil Age	hrs	Client Info		532	263	785
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Sodium ppm ASTM D5185m 2 3 19 Potassium ppm ASTM D5185m >20 1 <1 0 Fuel % ASTM D3224 >3.0 ▲ 4.3 ▲ 3.2 ▲ 4.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.2 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 8.2 7.1 8.2 Sulfation Abs/.imm *ASTM D7415 >30 19.1 17.1 18.5 FLUID DEGRADATION method limit/base current history1 history2	CONTAMINAN	TS	method	limit/base	current	history1	history2
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Fuel % ASTM D3524 >3.0 ▲ 4.3 ▲ 3.2 ▲ 4.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.2 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 8.2 7.1 8.2 Sulfation Abs/.1mm *ASTM D7415 >30 19.1 17.1 18.5 FLUID DEGRADATION method limit/base current history1 history2		ppm	ASTM D5185m		2	3	19
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Soot % % *ASTM D7844 >4 0.2 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 8.2 7.1 8.2 Sulfation Abs/.1mm *ASTM D7415 >30 19.1 17.1 18.5 FLUID DEGRADATION method limit/base current history1 history2	Fuel	%	ASTM D3524	>3.0	<u> </u>	▲ 3.2	4.8
Nitration Abs/cm *ASTM D7624 >20 8.2 7.1 8.2 Sulfation Abs/.1mm *ASTM D7415 >30 19.1 17.1 18.5 FLUID DEGRADATION method limit/base current history1 history2	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 19.1 17.1 18.5 FLUID DEGRADATION method limit/base current history1 history2	Soot %	%	*ASTM D7844	>4	0.2	0.1	0.1
Sulfation Abs/.1mm *ASTM D7415 >30 19.1 17.1 18.5 FLUID DEGRADATION method limit/base current history1 history2	Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.1	8.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30			
Oxidation Abs/.1mm *ASTM D7414 >25 14.7 13.1 14.1	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	13.1	14.1
Base Number (BN) mg KOH/g ASTM D2896 9.8 6.3 7.3 6.0		mg KOH/g					

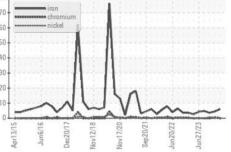
limit/base

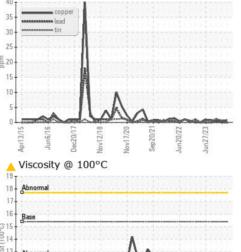


OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.1	12.6	▲ 11.4
GRAPHS						
UNALI IS						





un27/23

: 17 Jun 2024

: 19 Jun 2024

Received

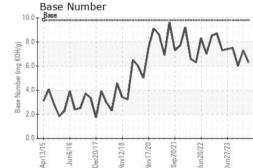
Diagnosed

Tested

Test Package : FLEET (Additional Tests: PercentFuel)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.



GFL Environmental - 002 - Vance-Granville 241 Vanco Mill Rd Henderson, NC : 19 Jun 2024 - Wes Davis US 27537 Contact: Cameron King cameron.king@gflenv.com T: (252)438-5333 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (252)431-1635

Report Id: GFL002 [WUSCAR] 06211242 (Generated: 06/19/2024 13:54:08) Rev: 1

Certificate 12367

Submitted By: Cameron King

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