

# **OIL ANALYSIS REPORT**

Sample Rating Trend

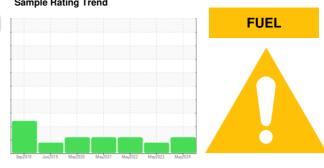
limit/base



(EQ4307) N SWTP Cat 1500kW generator #1 SWTP (S/N EBG01081) **Diesel Engine** 

PETRO CANADA DURON UHP 5W40 (83 GAL)

SAMPLE INFORMATION method



history1

current

history2

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#### Recommendation

We advise that you check the fuel injection system. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

#### Contamination

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

#### Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

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Sample Number		Client Info		WC0934063	WC0810881	WC0696102
Sample Date		Client Info		08 May 2024	18 May 2023	11 May 2022
Machine Age	hrs	Client Info		111	109	108
Oil Age	hrs	Client Info		111	107	108
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	MARGINAL	ABNORMAL
		method	limit/base	ourroad	biotom	history 0
CONTAMINATION	N			current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	2	2	4
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	<1
Lead	ppm	ASTM D5185m	>40	<1	<1	1
Copper	ppm	ASTM D5185m	>330	4	3	14
Tin	ppm	ASTM D5185m	>15	0	1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	65	63	66	64
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	65	55	53	53
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1160	997	1068	998
Calcium	ppm	ASTM D5185m	820	837	823	917
Phosphorus	ppm	ASTM D5185m	1160	987	1017	976
Zinc	ppm	ASTM D5185m	1260	1178	1268	1114
Sulfur	ppm	ASTM D5185m	3000	3689	4045	2881
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	5
Sodium	ppm	ASTM D5185m		3	2	3
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Fuel	%	ASTM D3524	>5	<u> </u>	<mark>▲</mark> 3.8	<b>9</b> .3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.2	6.1	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	18.7	17.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
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Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	15.5	16.1
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 11.0	15.1 8.9	15.5 9.5	16.1 8.6

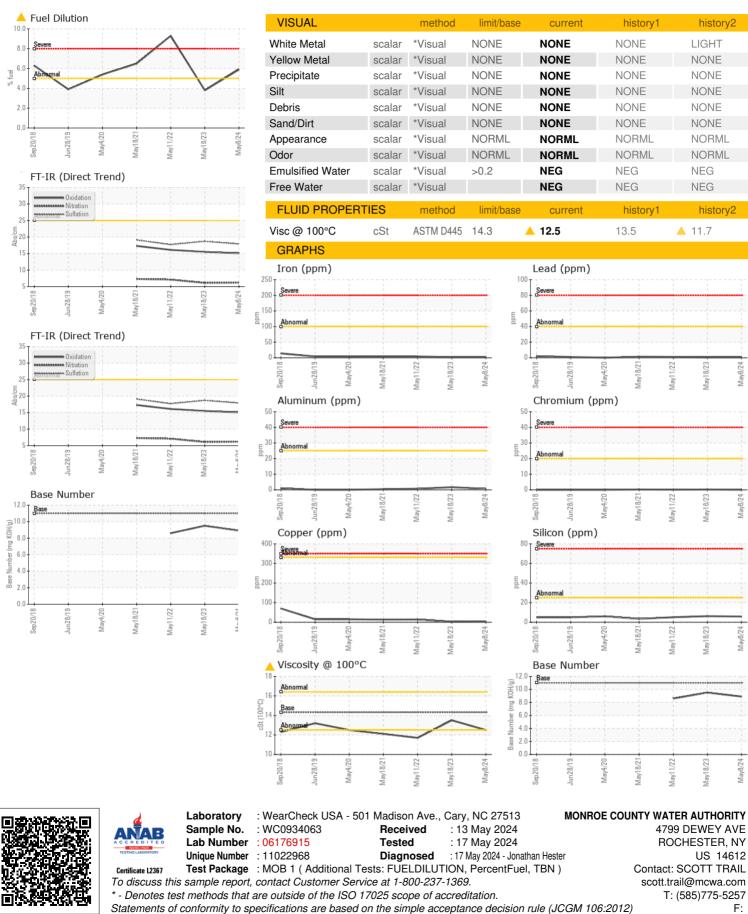
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