

## **OIL ANALYSIS REPORT**

Strighting Jungball Margland M

Sample Rating Trend



Recommendation

Contamination

Fluid Condition

Wear

oil.

(EQ4308) N

Area

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

All component wear rates are normal.

oil is suitable for further service.

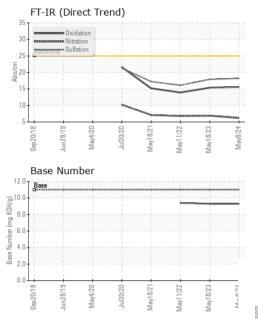
SWTP CAT 1500kW Generator #2 SWTP (S/N EBG01077N) Diesel Engine

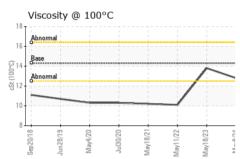
PETRO CANADA DURON UHP 5W40 (83 GAL)

SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934062	WC0810880	WC0696101
Sample Date		Client Info		08 May 2024	18 May 2023	11 May 2022
Machine Age	hrs	Client Info		94	93	91
Oil Age	hrs	Client Info		94	91	91
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	1.6	<b>1</b> 7.4
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	1	3	6
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	18	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	1
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	9	0	11
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	66	85	65
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	65	55	47	45
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1160	1046	1064	801
Calcium	ppm	ASTM D5185m	820	909	1009	1354
Phosphorus	ppm	ASTM D5185m	1160	1017	1136	909
Zinc	ppm	ASTM D5185m	1260	1216	1399	1036
Sulfur	ppm	ASTM D5185m	3000	3851	4629	2883
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	3
Sodium	ppm	ASTM D5185m		3	3	3
Potassium	ppm	ASTM D5185m	>20	0	2	0
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	6.9	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	17.9	16.1
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	15.4	13.9



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 VISUAL		method				
				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 PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.3	12.8	13.8	▲ 10.1
GRAPHS						
Iron (ppm)			10	Lead (ppm)		
200 Severe		1 1	10	Severe	1 1	1 1
150						
Abnormal			4	Abusenet		
50 -			2			
0						
Sep20/18 Jun28/19 May4/20	Jul30/20 May18/21	May11/22 May18/23	May8/24	Sep20/18 Jun28/19 Mav4/20	Jul30/20 May18/21	May11/22 . May18/23 .
Sep2 Jun2 May	May	May1 May1	May	Sep2 Jun2 Mar	Jul	May'
Aluminum (ppm)				Chromium (p	pm)	
50 40 Severe			51	Severe		
	1 1		41			
Abnormal	1		u 30	Abnormal		
10			10			
20 13 13	20+	22	24		20	22 .
Sep 20/18 Jun 28/19 May4/20	Jul30/20 May18/21	May11/22 May18/23	May8/24	Sep20/18 Jun28/19 Mav4/20	Jul30/20 May18/21	May11/22
Copper (ppm)	2	N N		Silicon (ppm)	-	2 2
400			8			
300 -			60		1 1	1 1
튭 200 -			Ed. 41	Abnormal		1 1
100-			2	]		
	21	22	54		21	22
Sep20/18 Jun28/19 May4/20	Jul30/20 May18/21	May 11/22 May 18/23	May8/24	Sep20/18 Jun28/19 Mav4/20	Jul30/20 May18/21	May11/22 May18/23
Viscosity @ 100°C		2 2		∞ ¬ – Base Numbe	~	2 2
Abnormal			12.0 			
16			(B)HOX BHOX Bull ta 6.1 Bull t	]		
Abnormal		1	<u>ا</u> بو ال	D <b>-</b>		
the second se			ung 4.0	•		
10-			88 2.0	1		
0 - 1	Jul30/20 + May18/21 +	May11/22 - May18/23 -	May8/24		Jul30/20 +	3/23 -
20 ay4	ay18	y18	lay(	Sep20/18 Jun28/19 Mav4/20	Jul30/20 May18/21	May11/22 May18/23

Certificate L2367 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)

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