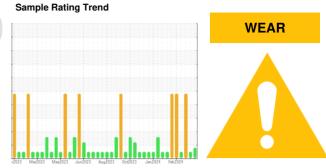


OIL ANALYSIS REPORT



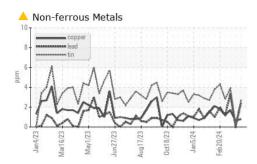
Machine Id Brent Run CAT 1 BRRM01BE Biogas Engine

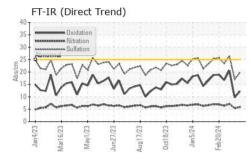
Fluid CHEVRON HDAX 9500 GAS ENGINE OIL 40 (--- GAL)

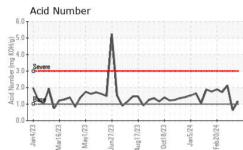
AGNOSIS	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0915827	WC0776764	WC0776718
orrective action is recommended at this time.	Sample Date		Client Info		10 Apr 2024	01 Apr 2024	25 Mar 2024
ample at the next service interval to monitor. (Machine Age	hrs	Client Info		42387	42201	42033
Customer Sample Comment: 200 hr sample)	Oil Age	hrs	Client Info		186	892	724
ear	Oil Changed		Client Info		Not Changd	Changed	Not Changd
tin level is abnormal.	Sample Status				ABNORMAL	NORMAL	SEVERE
tamination e is no indication of any contamination in the	CONTAMINATION	١	method	limit/base	current	history1	history2
	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
uid Condition	Water		WC Method		NEG	NEG	NEG
BN result indicates that there is suitable	Glycol		WC Method		NEG	NEG	NEG
Ikalinity remaining in the oil. The AN level is cceptable for this fluid. The condition of the oil is cceptable for the time in service.	WEAR METALS		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>14	<1	<1	4
	Chromium	ppm	ASTM D5185m	>3	<1	0	0
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>5	2	1	2
	Lead	ppm	ASTM D5185m	>8	2	0	3
	Copper	ppm	ASTM D5185m	>5	<1	<1	2
	Tin	ppm	ASTM D5185m		A 3	<1	4
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	Cadmium	ppm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		2	3	2
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		3	2	<1
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		6	5	9
	Calcium	ppm	ASTM D5185m		1812	1576	1941
	Phosphorus	ppm	ASTM D5185m		313	238	297
	Zinc	ppm	ASTM D5185m		351	290	368
	Sulfur	ppm	ASTM D5185m		2940	2339	3089
	CONTAMINANTS		method	limit/base	current	history1	history2
	O		ASTM D5185m	>180	101	59	2 26
	Silicon	ppm	/10/111/00/100/11				
	Silicon Sodium	ppm ppm	ASTM D5185m	>20	<1	3	<1
					<1 3	3 0	<1 3
	Sodium	ppm	ASTM D5185m		3		3
	Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>20	3	0	3
	Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m method	>20	3 current	0 history1	3 history2
	Sodium Potassium INFRA-RED Soot %	ppm ppm %	ASTM D5185m ASTM D5185m method *ASTM D7844	>20	3 current 0.1	0 <mark>history1</mark> 0	3 history2 0.1
	Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7624	>20	3 current 0.1 5.9 19.8	0 history1 0 5.4	3 history2 0.1 7.1
	Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base	3 current 0.1 5.9 19.8	0 history1 0 5.4 17.1	3 history2 0.1 7.1 26.5
	Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm % Abs/cm Abs/.1mm TION	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415 method	>20 limit/base limit/base	3 current 0.1 5.9 19.8 current	0 history1 0 5.4 17.1 history1	3 history2 0.1 7.1 26.5 history2

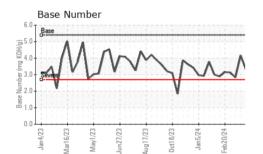


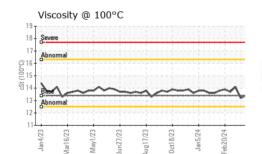
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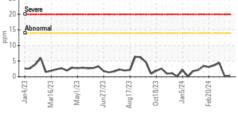


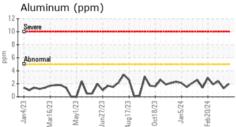


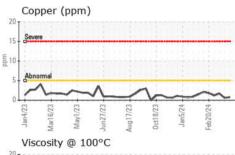


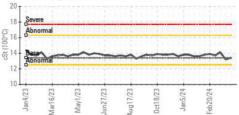


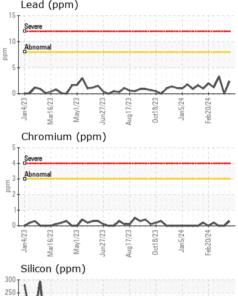
L ANALYS	SIS F	REPOF	RT							
			11 11 11							
VISUAL		method	limit/base	current	history1	history2				
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT				
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE				
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE				
Silt	scalar	*Visual	NONE	NONE	NONE	NONE				
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		NEG	NEG	NEG				
Free Water	scalar	*Visual		NEG	NEG	NEG				
FLUID PROPERT	IES	method	limit/base	current	history1	history2				
Visc @ 100°C	cSt	ASTM D445	13.4	13.4	13.2	14.1				
GRAPHS										
Iron (ppm)				Lead (ppm)						
25 Severe										



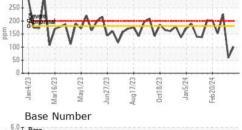


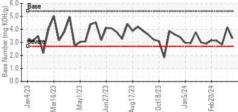






history2







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **EDL NA Recips-Brent Run** Sample No. : WC0915827 Received : 12 Apr 2024 Brent Run Power Station, 8383 Vienna Road Lab Number : 06147529 Tested : 15 Apr 2024 Montrose, MI Unique Number : 10977607 Diagnosed : 16 Apr 2024 - Sean Felton US 48457-9141 Test Package : MOB 2 Contact: Rob Stewart Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. Rob.Stewart@energydevelopments.com * - 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)

Report Id: EDLMON [WUSCAR] 06147529 (Generated: 04/16/2024 12:23:23) Rev: 1

Submitted By: DOUG HINE

Page 2 of 2

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