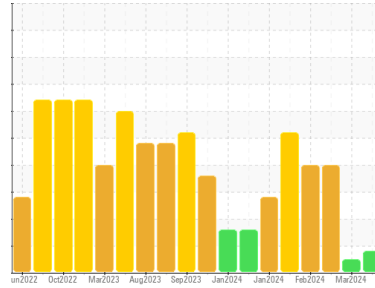




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Area

BRUCE B/0B/54300

Machine Id

0B-54300-EPG2-E2

Component

Diesel Engine

Fluid

CHEVRON URSA SUPER PLUS 40 (7 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. The water content is negligible. No other contaminants were detected in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0871718	WC0896848	WC
Sample Date	Client Info	28 Mar 2024	27 Mar 2024	28 Feb 2024
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		MARGINAL	NORMAL	SEVERE

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >100	1	1	5
Chromium	ppm	ASTM D5185(m) >20	0	0	0
Nickel	ppm	ASTM D5185(m) >4	0	0	<1
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m) >3	0	0	0
Aluminum	ppm	ASTM D5185(m) >20	<1	<1	<1
Lead	ppm	ASTM D5185(m) >40	0	0	<1
Copper	ppm	ASTM D5185(m) >330	<1	<1	1
Tin	ppm	ASTM D5185(m) >15	0	0	<1
Antimony	ppm	ASTM D5185(m)	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	261	263	237
Barium	ppm	ASTM D5185(m)	0	0	0
Molybdenum	ppm	ASTM D5185(m)	30	30	25
Manganese	ppm	ASTM D5185(m)	0	0	0
Magnesium	ppm	ASTM D5185(m)	8	10	6
Calcium	ppm	ASTM D5185(m)	2303	2287	2118
Phosphorus	ppm	ASTM D5185(m) 1000	625	632	618
Zinc	ppm	ASTM D5185(m) 1090	711	715	681
Sulfur	ppm	ASTM D5185(m)	2312	2350	2366
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

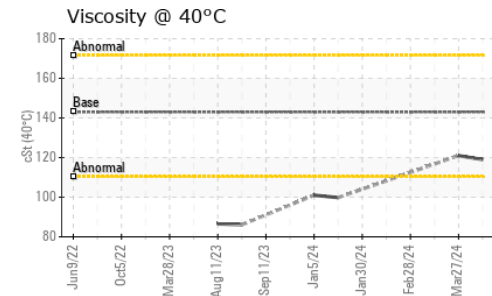
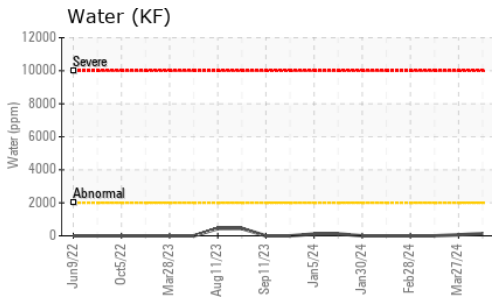
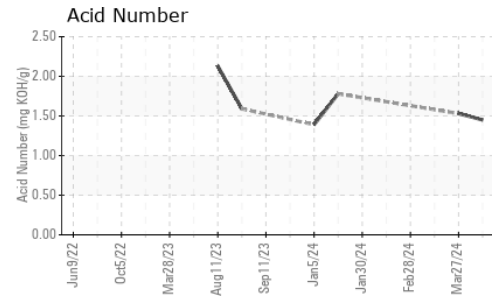
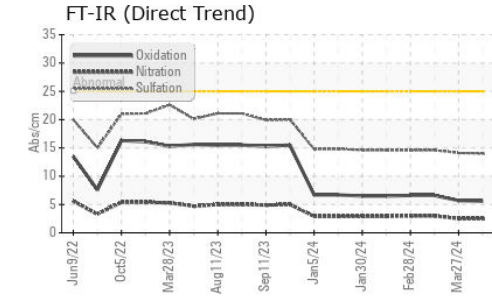
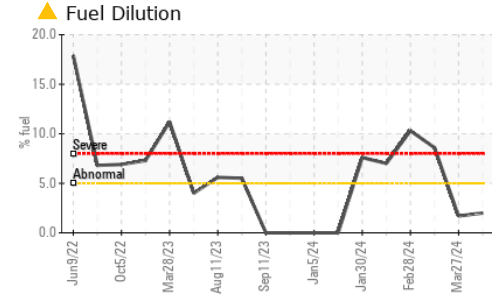
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Silicon	ppm	ASTM D5185(m) >25	16	13	▲ 30
Sodium	ppm	ASTM D5185(m)	1	1	1
Potassium	ppm	ASTM D5185(m) >20	<1	<1	2
Fuel	%	ASTM D7593* >5	▲ 2	1.7	▲ 8.6
Water	%	ASTM D6304* >0.2	0.013	0.006	---
ppm Water	ppm	ASTM D6304* >2000	138	60	---

INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844* >3	0	0	0
Nitration	Abs/cm	ASTM D7624* >20	2.5	2.5	3.0
Sulfation	Abs./1mm	ASTM D7415* >30	14.0	14.1	14.6



OIL ANALYSIS REPORT

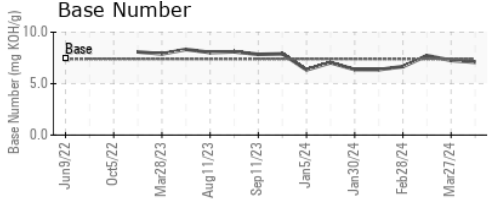
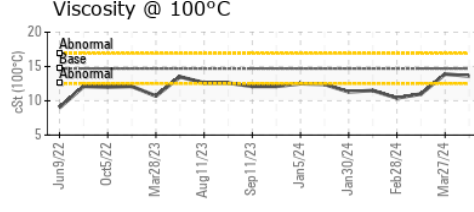
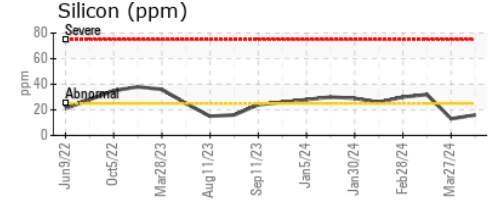
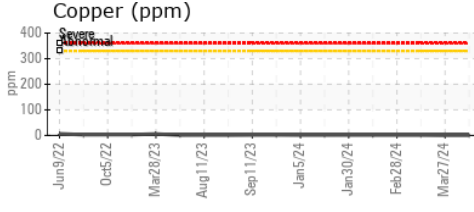
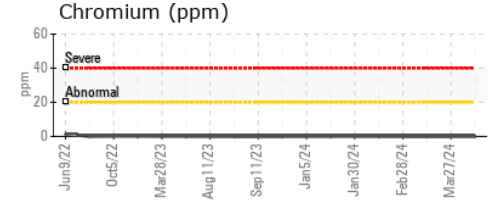
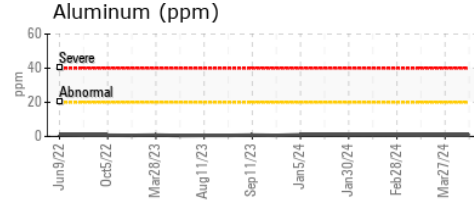
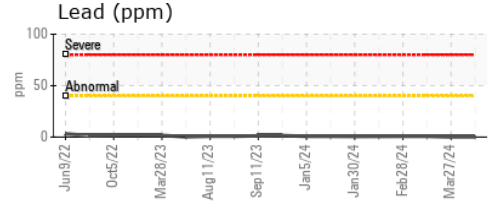
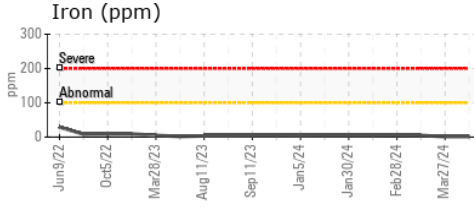


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	5.6	5.7	6.6
Acid Number (AN)	mg KOH/g	ASTM D974*		1.45	1.53	---
Base Number (BN)	mg KOH/g	ASTM D2896*	7.4	7.08	7.26	7.73

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	
Yellow Metal	scalar	Visual*	NONE	NONE	---	
Precipitate	scalar	Visual*	NONE	NONE	---	
Silt	scalar	Visual*	NONE	NONE	---	
Debris	scalar	Visual*	NONE	NONE	---	
Sand/Dirt	scalar	Visual*	NONE	NONE	---	
Appearance	scalar	Visual*	NORML	NORML	---	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	143	119	121	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.7	13.6	13.9	▲ 11.0
Viscosity Index (VI)	Scale	ASTM D2270*	102	111	113	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0871718
Lab Number : 02625992
Unique Number : 5759124
Test Package : MOB 2 (Additional Tests: FuelDilution, KF, KV40, PercentFuel, Tan Auto, TAN Man, Contam

Bruce Power - Bruce A PdM
 P.O.Box 1540, 177 Tie Road, RM-222 U2 Column 2N11 615
 Tiverton, ON
 CA N0G 2T0
 Contact: Bradley Mangotich
 bradley.mangotich@brucepower.com
 T: (519)361-2673
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.