

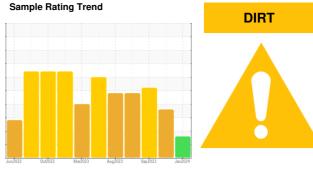
# **OIL ANALYSIS REPORT**

# BRUCE B/0B/54300 0B-54300-EPG2-E2

Component

**Diesel Engine** 

**CHEVRON URSA SUPER PLUS 40 (7 GAL)** 



## **DIAGNOSIS**

### Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate concentration of dirt present in the oil. The water content is negligible.

### **Fluid Condition**

Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0642723	WC0642791	WC0642792
Sample Date		Client Info		05 Jan 2024	11 Sep 2023	11 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	▲ 0.027	▲ 0.024
		VVO IVICTIOU		MEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	4	4	4
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<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	<1	1	2
Copper	ppm	ASTM D5185(m)	>330	1	2	2
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<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)		249	175	179
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		26	<1	<1
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		8	10	10
Calcium	ppm	ASTM D5185(m)		2187	1964	1978
Phosphorus	ppm	ASTM D5185(m)	1000	648	971	962
Zinc	ppm	ASTM D5185(m)	1090	700	1012	1020
Sulfur	ppm	ASTM D5185(m)		2434	2761	2812
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	▲ 30	24	<u>^</u> 26
Sodium	ppm	ASTM D5185(m)		1	3	3
Potassium	ppm	ASTM D5185(m)	>20	5	<u>^</u> 6	<u> </u>
Water	%	ASTM D6304*	>0.2	0.010		
ppm Water	ppm	ASTM D6304*	>2000	110		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	2.9	5.0	4.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	14.8	20.0	19.9



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