

OIL ANALYSIS REPORT

Sample Rating Trend

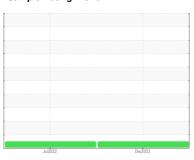
NORMAL



BELL B20ELGP B93A620EJ03010020 Component

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

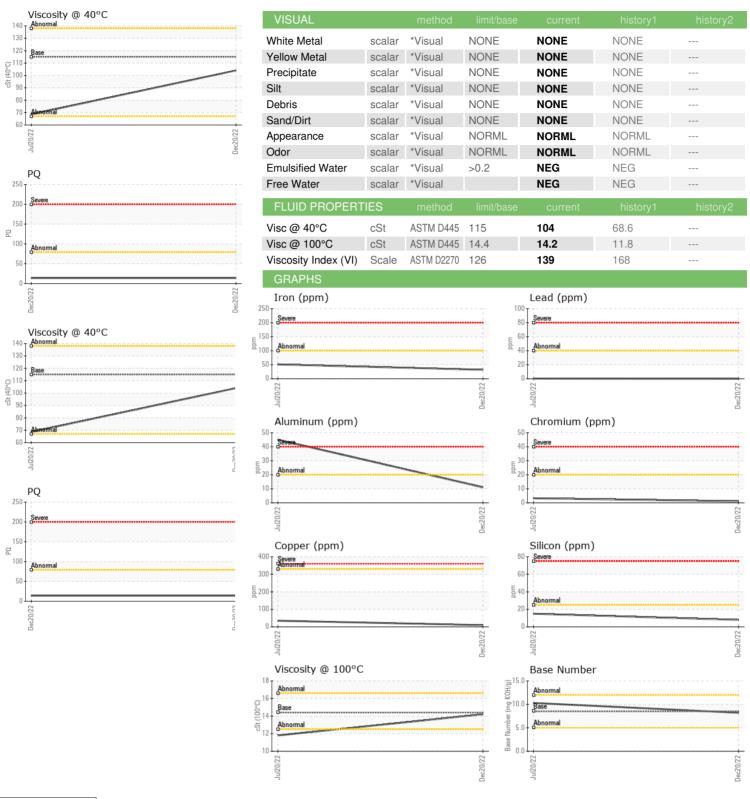
Fluid Condition

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

AE 15W40 (G	AL)		Jul2022	Dec2022		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		BE0007821	BE0007820	
Sample Date		Client Info		20 Dec 2022	20 Jul 2022	
Machine Age	hrs	Client Info		962	463	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.2	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>79	14		
ron	ppm	ASTM D5185m	>100	32	51	
Chromium	ppm	ASTM D5185m	>20	1	3	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		74	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>20	11	45	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	10	35	
Tin	ppm	ASTM D5185m	>15	<1	2	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	103	120	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	7	38	
Manganese	ppm	ASTM D5185m		2	8	
Magnesium	ppm	ASTM D5185m	450	415	879	
Calcium	ppm	ASTM D5185m	3000	1778	1216	
Phosphorus	ppm	ASTM D5185m	1150	964	681	
Zinc	ppm	ASTM D5185m	1350	1135	837	
Sulfur	ppm	ASTM D5185m	4250	3065	2346	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	15	
Sodium	ppm	ASTM D5185m	>158	2	3	
Potassium	ppm	ASTM D5185m	>20	8	6	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.8	
Nitration	Abs/cm	*ASTM D7624	>20	9.3	11.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	19.2	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	15.0	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.2	10.3	



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Certificate L2367

Laboratory

Sample No. Lab Number

: BE0007821 : 05736580 **Unique Number** : 10286178 Test Package : MOBCE

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed

: 13 Jan 2023

: 11 Jan 2023

: 13 Jan 2023 - Jonathan Hester

Wakarusa Heavy Equipment

66349 State Road 19 Wakarusa, IN US 46573

Contact: Service Manager

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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