

OIL ANALYSIS REPORT

Sample Rating Trend





CATERPILLAR RIG 77-B GENERATOR 2 (S/N 026597) Component

Diesel Engine

CHEVRON URSA SUPER PLUS EC 15W40 (170 GAL)

DIAGNOSIS

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.

PLUS EC 15W40 (170 GAL)						
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0018383	RP0028036	RP195701
Sample Date		Client Info		10 Aug 2023	24 Dec 2022	09 Apr 2020
Machine Age	hrs	Client Info		0	38594	37784
Oil Age	hrs	Client Info		0	0	796
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION		method	limit/base	current	history1	history2
-uel		WC Method	>6	<1.0	<1.0	0.9
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	2	5	3
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	2	2	3
Lead	ppm	ASTM D5185m	>40	<1	1	<1
Copper	ppm	ASTM D5185m	>330	<1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6	285	372
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		62	101	129
	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		968	501	562
_	ppm	ASTM D5185m		1076	1116	1486
Phosphorus	ppm	ASTM D5185m	1200	1065	541	726
	ppm	ASTM D5185m	1300	1291	704	875
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	5	5
Sodium	ppm	ASTM D5185m		2	3	5
Potassium	ppm	ASTM D5185m	>20	1	2	0
Water	%	ASTM D6304	>0.2			△ 0.337
ppm Water	ppm	ASTM D6304	>2000			▲ 3370
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.0	7.3	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	20.9	18.8
FLUID DEGRADAT	ΓΙΟΝ	method	limit/base	current	history1	history2

Oxidation

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 8.0

16.3

15.5

10.54

16.6

4.47



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Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: RP0018383

: 05922400 : 10602347

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Aug 2023

Diagnosed : 14 Aug 2023 Diagnostician : Don Baldridge

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Test Package : IND 2 (Additional Tests: FT-IR, KV100, TBN) 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.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)