

# **OIL ANALYSIS REPORT**

Sample Rating Trend



#### Machine Id **103** Component **Diesel Engine**

Eluid

## CONOCO PHILLIPS GUARDOL ECT 15W40 (--- Oz)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

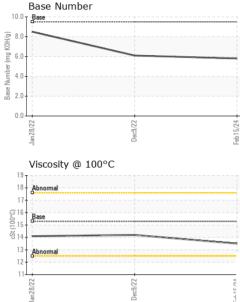
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

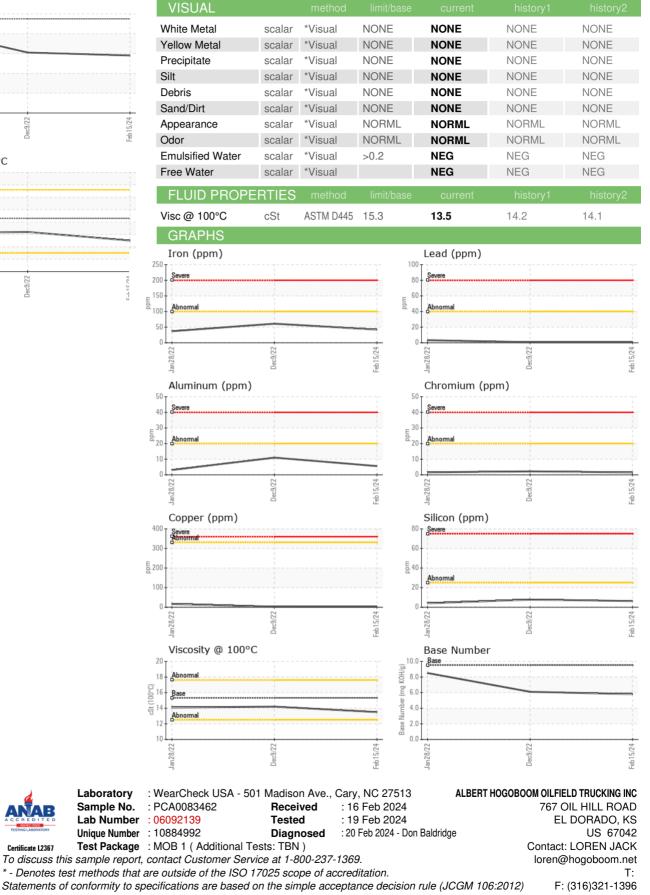
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0083462	PCA0028056	PCA0066165
Sample Date		Client Info		15 Feb 2024	09 Dec 2022	28 Jan 2022
Machine Age	mls	Client Info		0	11832	13419
Oil Age	mls	Client Info		0	11832	13419
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	42	61	37
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	6	11	3
Lead	ppm	ASTM D5185m	>40	<1	<1	3
Copper	ppm	ASTM D5185m	>330	2	3	17
Tin	ppm	ASTM D5185m	>15	<1	<1	2
Antimony	ppm	ASTM D5185m				<1
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	85	2	3	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		62	60	55
Manganese	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m	350	967	1012	968
Calcium	ppm	ASTM D5185m	1800	1104	1224	1176
Phosphorus	ppm	ASTM D5185m	1000	923	1045	992
Zinc	ppm	ASTM D5185m	1100	1251	1377	1222
Sulfur	ppm	ASTM D5185m	3500	3296	3259	2347
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	8	4
Sodium	ppm	ASTM D5185m		0	3	21
Potassium	ppm	ASTM D5185m	>20	9	15	41
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.8	0.4
Nitration	Abs/cm	*ASTM D7624	>20	11.7	13.5	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	26.5	23
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	25.5	19.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	5.8	6.1	8.5
2.00.27) Bov: 1	Contact/Location: LOBEN JACK - OILELD					

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Certificate L2367

Contact/Location: LOREN JACK - OILELD