

# **OIL ANALYSIS REPORT**

Sample Rating Trend

## NORMAL

Machine Id

### **PIERCE 2223**

Component Diesel Engine

Fluid CHEVRON DELO 400 XLE 15W40 (35 QTS)

### 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

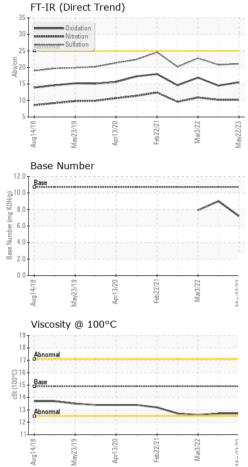
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	<b>ATION</b>	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0804027	WC0741898	WC0666072	
Sample Date		Client Info		22 May 2023	03 Nov 2022	03 Mar 2022	
Machine Age	hrs	Client Info		9074	8914	8624	
Oil Age	hrs	Client Info		455	290	533	
Oil Changed		Client Info		Changed	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	31	24	38	
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	0	
Titanium	ppm	ASTM D5185m	>2	11	10	11	
Silver	ppm	ASTM D5185m	>2	<1	0	0	
Aluminum	ppm	ASTM D5185m	>30	1	2	2	
Lead	ppm	ASTM D5185m	>30	<1	<1	2	
Copper	ppm	ASTM D5185m	>30	4	3	5	
Tin	ppm	ASTM D5185m	>4	<1	<1	<1	
Antimony	ppm	ASTM D5185m				0	
Vanadium	ppm	ASTM D5185m		<1	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		84	100	65	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		52	55	46	
Manganese	ppm	ASTM D5185m		1	<1	<1	
Magnesium	ppm	ASTM D5185m		696	663	698	
Calcium	ppm	ASTM D5185m		1453	1430	1403	
Phosphorus	ppm	ASTM D5185m	760	713	732	731	
Zinc	ppm	ASTM D5185m	830	902	866	860	
Sulfur	ppm	ASTM D5185m	2770	3391	3446	2658	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	6	6	8	
Sodium	ppm	ASTM D5185m		7	4	4	
Potassium	ppm	ASTM D5185m	>20	4	1	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.8	0.8	1	
Nitration	Abs/cm	*ASTM D7624	>20	10.2	10.2	10.9	
Sulfation	Abs/.1mm	*ASTM D7415		21.1	20.8	22.8	
FLUID DEGRADA		method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	14.5	16.9	
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	7.2	9.0	7.9	
:16:54) Rev: 1 Contact/Location: BRANDON PASINSKI - TOWCARNC							

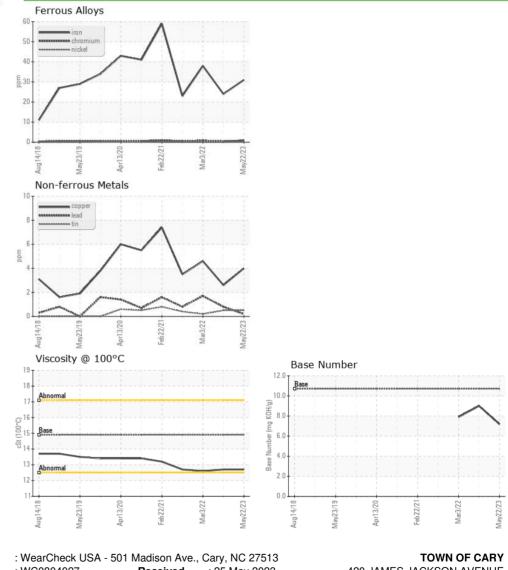
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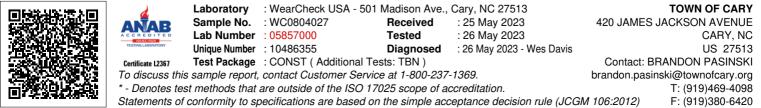


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.9	12.7	12.7	12.6
GRAPHS						





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