

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

oil is suitable for further service.

All component wear rates are normal.

CATERPILLAR 745D 13405 (S/N 3T606094) Component **Diesel Engine** 

Silicon

Sodium

Soot %

Nitration

Sulfation

Oxidation

Potassium

INFRA-RED

FLUID DEGRADATION

ppm

ppm

ppm

%

Base Number (BN) mg KOH/g ASTM D2896 9.6

ASTM D5185m >25

ASTM D5185m >20

\*ASTM D7844 >3

Abs/cm \*ASTM D7624 >20

Abs/.1mm \*ASTM D7415 >30

Abs/.1mm \*ASTM D7414 >25

ASTM D5185m

4

0

0

0.3

9.2

20.9

18.0

6.9

Fluid PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)





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SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0887974	WC0879406	
Sample Date		Client Info		08 Jan 2024	04 Dec 2023	
Machine Age	hrs	Client Info		1176	713	
Oil Age	hrs	Client Info		463	713	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	MARGINAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<b>2</b> .4	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	18	46	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel	ppm	ASTM D5185m	>2	2	<1	
Titanium	ppm	ASTM D5185m	>2	0	<1	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>25	2	2	
Lead	ppm	ASTM D5185m	>40	2	3	
Copper	ppm	ASTM D5185m	>330	132	860	
Tin	ppm	ASTM D5185m	>15	<1	2	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	0	19	
Barium	ppm	ASTM D5185m	1	0	4	
Molybdenum	ppm	ASTM D5185m	60	56	48	
Manganese	ppm	ASTM D5185m	1	<1	2	
Magnesium	ppm	ASTM D5185m	1010	976	649	
Calcium	ppm	ASTM D5185m	1070	1165	1470	
Phosphorus	ppm	ASTM D5185m	1150	1051	946	
Zinc	ppm	ASTM D5185m	1270	1375	1162	
Sulfur	ppm	ASTM D5185m	2060	2839	2742	
CONTAMINANTS		method	limit/base	current	history1	history2
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DIAGNOSIS Recommendation

Contamination

Fluid Condition

Wear

oil.

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13 2

2

0.4

10.2

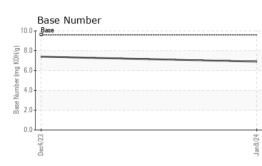
23.2

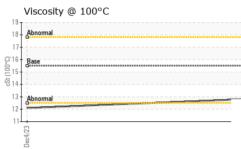
22.6

7.4

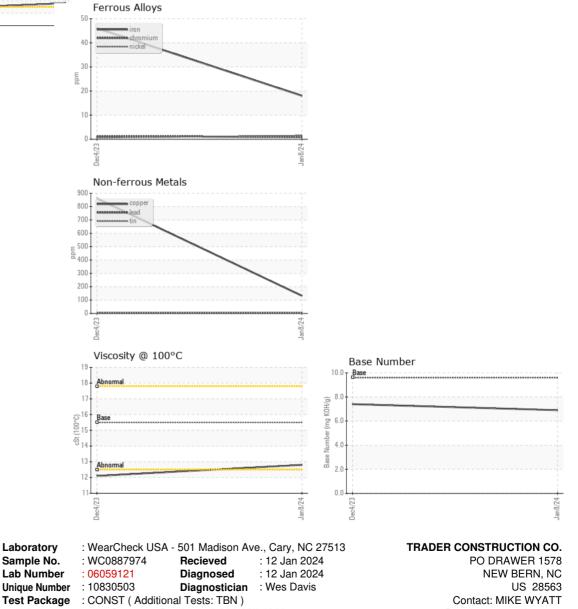


## **OIL ANALYSIS REPORT**





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.5	12.8	12.1	
GRAPHS						





Test Package : CONST (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mwyatt@traderconstruction.com \* - 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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