

OIL ANALYSIS REPORT

Sample Rating Trend

pre nating Trend

NORMAL





CATERPILLAR 308 8371 (S/N AGG803468)

Component

Diesel Engine

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

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

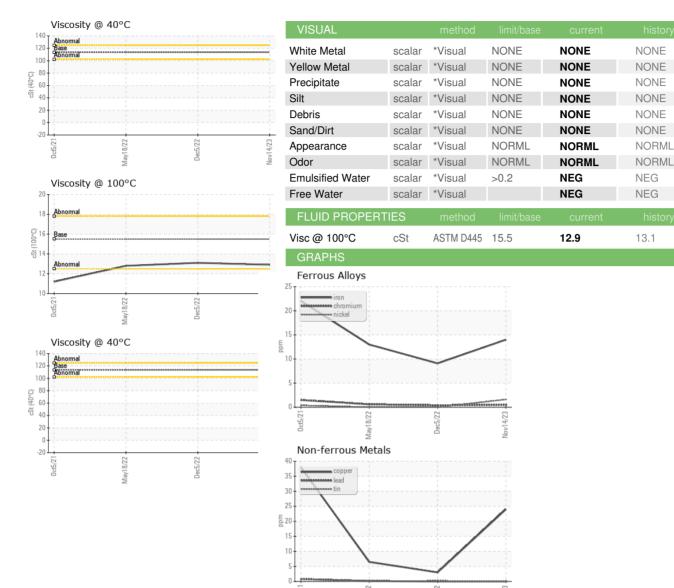
Fluid Condition

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

0x2021 May2022 0x2022 Nov2023						
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0879366	WC0755135	WC0693284
Sample Date		Client Info		14 Nov 2023	05 Dec 2022	18 May 2022
Machine Age	hrs	Client Info		1784	1272	941
Oil Age	hrs	Client Info		512	680	349
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	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		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	14	9	13
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	2	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm		>25	2	1	2
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper		ASTM D5185m		24	3	6
Tin	ppm	ASTM D5185m	>15	0	<1	0
	ppm	ASTM D5185m	>10			
Antimony	ppm					
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	5	8	9
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	60	55	60	55
Manganese	ppm	ASTM D5185m	1	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	907	873	884
Calcium	ppm	ASTM D5185m	1070	1050	1068	1177
Phosphorus	ppm	ASTM D5185m	1150	1054	973	1025
Zinc	ppm	ASTM D5185m	1270	1281	1188	1253
Sulfur	ppm	ASTM D5185m	2060	3140	3500	2665
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	6
Sodium	ppm	ASTM D5185m		3	2	<1
Potassium	ppm	ASTM D5185m	>20	2	0	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624		9.0	7.9	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	20.0	18.6
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	16.3	15.5
Base Number (BN)	mg KOH/g	ASTM D2896		7.4	9.6	8.6
2000 Hambor (DIV)	.iig itoriig	. 10 1111 DE000	5.0		0.0	0.0



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Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: 10751399

cSt (100°C)

10

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0879366 : 06012255

Viscosity @ 100°C

Received Diagnosed

: 21 Nov 2023 Diagnostician : Sean Felton

Test Package : CONST (Additional Tests: KV40, 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.

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



Base Number

10.0

(mg K0H/g)

Base

Nov14/23

: 20 Nov 2023

0.0

TRADER CONSTRUCTION CO.

PO DRAWER 1578 NEW BERN, NC US 28563

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

12.8

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