

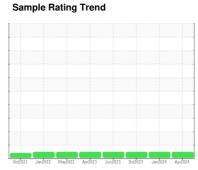
OIL ANALYSIS REPORT



CATERPILLAR 150 8206 (S/N NJ00126)

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

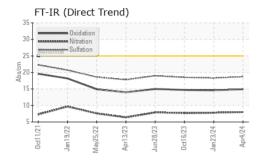
Fluid Condition

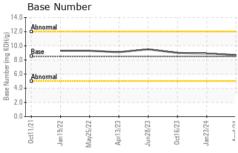
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

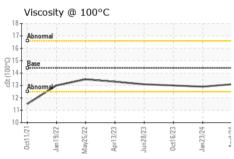
SAE 40 (GAL) Octob21 Janifo22 Aprifo23 Janifo23 Octob23 Janifo24 Aprifo24 Aprifo24								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0913170	WC0888042	WC0862904		
Sample Date		Client Info		04 Apr 2024	23 Jan 2024	16 Oct 2023		
Machine Age	hrs	Client Info		4060	3466	2946		
Oil Age	hrs	Client Info		594	520	536		
Oil Changed		Client Info		Changed	Changed	Changed		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATION	J	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	12	15		
Chromium	ppm	ASTM D5185m	>20	0	0	<1		
Nickel	ppm	ASTM D5185m	>2	0	0	0		
Titanium	ppm	ASTM D5185m	>2	0	0	0		
Silver	ppm	ASTM D5185m	>2	0	<1	0		
Aluminum	ppm	ASTM D5185m	>25	<1	3	2		
Lead	ppm	ASTM D5185m	>40	0	<1	<1		
Copper	ppm	ASTM D5185m	>330	3	<1	2		
Tin	ppm	ASTM D5185m	>15	0	<1	<1		
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	250	2	6	4		
Barium	ppm	ASTM D5185m	10	0	0	0		
Molybdenum	ppm	ASTM D5185m	100	56	59	59		
Manganese	ppm	ASTM D5185m		0	<1	<1		
Magnesium	ppm	ASTM D5185m	450	994	905	933		
Calcium	ppm	ASTM D5185m	3000	1386	1179	1184		
Phosphorus	ppm	ASTM D5185m	1150	1157	1082	1047		
Zinc	ppm	ASTM D5185m	1350	1321	1278	1285		
Sulfur	ppm	ASTM D5185m	4250	3858	3060	3215		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	2	3	4		
Sodium	ppm	ASTM D5185m	>216	2	<1	2		
Potassium	ppm	ASTM D5185m	>20	<1	2	<1		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.8	7.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.3	18.5		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	14.6	14.7		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.7	8.9	9.0		

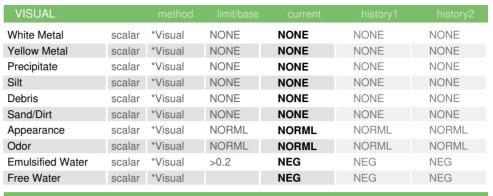


OIL ANALYSIS REPORT



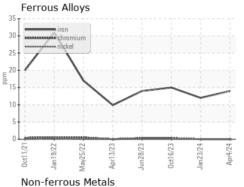


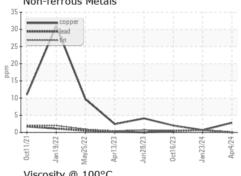


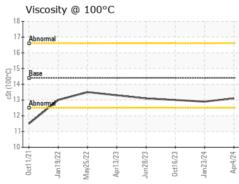


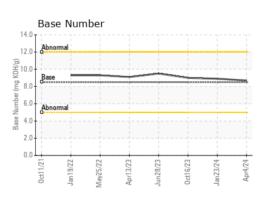
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.1	12.9	13.0

GRAPHS













Certificate 12367

Sample No.

Lab Number : 06147042

: WC0913170 Unique Number : 10977120

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package : CONST (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 12 Apr 2024 : 15 Apr 2024

: 15 Apr 2024 - Wes Davis

Contact: MIKE WYATT mwyatt@traderconstruction.com T: (252)633-1399

TRADER CONSTRUCTION CO.

PO DRAWER 1578

NEW BERN, NC

US 28563

* - 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)

F: (252)638-4871 Contact/Location: MIKE WYATT - TRANEW

Report Id: TRANEW [WUSCAR] 06147042 (Generated: 04/15/2024 18:58:29) Rev: 1