

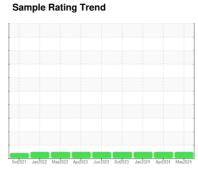
OIL ANALYSIS REPORT



Machine Id **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.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

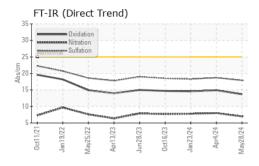
Fluid Condition

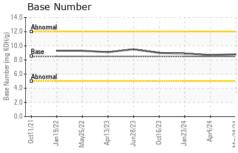
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

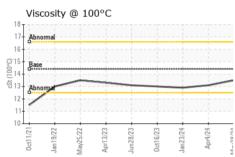
AE 40 (GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0899135	WC0913170	WC0888042
Sample Date		Client Info		28 May 2024	04 Apr 2024	23 Jan 2024
Machine Age	hrs	Client Info		4428	4060	3466
Oil Age	hrs	Client Info		368	594	520
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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
ron	ppm	ASTM D5185m	>100	9	14	12
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	2	<1	3
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	1	3	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<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	3	2	6
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	60	56	59
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	450	931	994	905
Calcium	ppm	ASTM D5185m	3000	1191	1386	1179
Phosphorus	ppm	ASTM D5185m	1150	1106	1157	1082
Zinc	ppm	ASTM D5185m	1350	1301	1321	1278
Sulfur	ppm	ASTM D5185m	4250	3622	3858	3060
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	2	3
Sodium	ppm	ASTM D5185m	>216	2	2	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.5	0.4
Vitration	Abs/cm	*ASTM D7624	>20	7.0	8.0	7.8
O f = 4! =	Abs/.1mm	*ASTM D7415	>30	17.9	18.7	18.3
Sullation						
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Sulfation FLUID DEGRAD. Oxidation	ATION Abs/.1mm	method *ASTM D7414	limit/base	current	history1	history2 14.6



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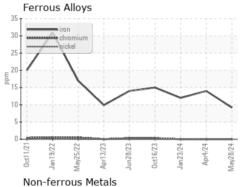


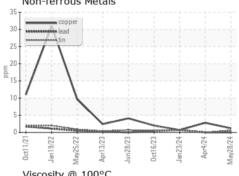


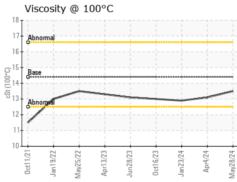
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

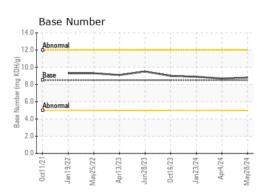
FLUID PROPER	THES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.4	13.5	13.1	12.9

GRAPHS













Certificate 12367

Sample No.

: WC0899135 Lab Number : 06196221 Unique Number : 11058344

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

: 31 May 2024 : 03 Jun 2024

Diagnosed : 03 Jun 2024 - Wes Davis

Test Package : CONST (Additional Tests: 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)

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