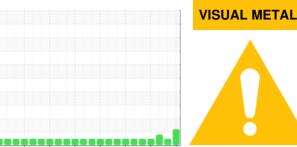


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **CATERPILLAR 501 HD T 501T** Component Diesel Engine

Fluid VALVOLINE 15W40 (5 GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Moderate concentration of visible metal present. All component wear rates are normal.

Contamination

There is no indication of any contamination in the

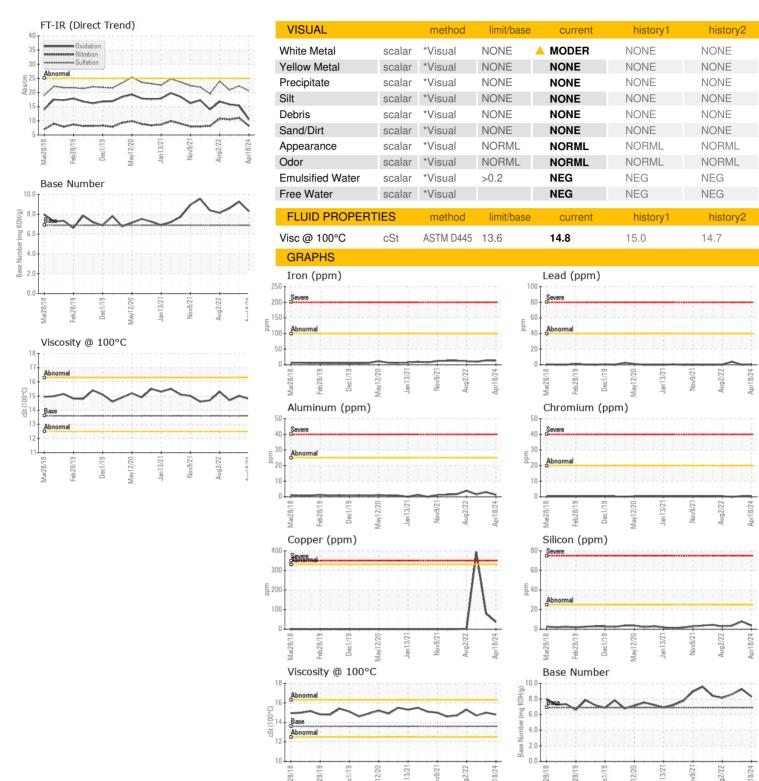
Fluid Condition

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

GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RW0005096	RW0004599	RW0004133
Sample Date		Client Info		18 Apr 2024	27 Oct 2023	21 Jul 2023
Machine Age	hrs	Client Info		24350	23359	22804
Oil Age	hrs	Client Info		450	359	422
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
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	13	14	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	3	2
Lead	ppm	ASTM D5185m	>40	<1	0	4
Copper	ppm	ASTM D5185m	>330	37	81	△ 394
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	39	0	36	36
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	49	<1	82	82
Manganese	ppm	ASTM D5185m	1	<1	<1	<1
Magnesium	ppm	ASTM D5185m	616	12	12	18
Calcium	ppm	ASTM D5185m	1554	2546	2094	2422
Phosphorus	ppm	ASTM D5185m	899	933	853	1056
Zinc	ppm	ASTM D5185m	1069	1214	1167	1348
Sulfur	ppm	ASTM D5185m	2624	4109	4707	4888
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	8	4
Sodium	ppm	ASTM D5185m		0	10	15
Potassium	ppm	ASTM D5185m	>20	1	16	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2	2.1	1.5
Nitration	Abs/cm	*ASTM D7624	>20	8.2	11.0	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	22.3	20.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.5	15.4	15.8
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	8.30	9.26	8.60



OIL ANALYSIS REPORT







Sample No.

Lab Number : 06196023 Unique Number : 11058146

: RW0005096

Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 **Tested** : 02 Jun 2024

Diagnosed : 02 Jun 2024 - Don Baldridge

Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

US 49746 Contact: DAVE HORNBACHER davehornbacher@yahoo.com

T: (989)884-2119 F: (989)742-4845

Report Id: CORHIL [WUSCAR] 06196023 (Generated: 06/02/2024 11:27:04) Rev: 1

Contact/Location: DAVE HORNBACHER - CORHIL

CORDES FOREST

PO BOX 277

HILLMAN, MI