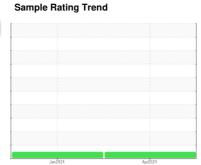


OIL ANALYSIS REPORT









Machine Id CATERPILLAR 140M - DIRT CREW 31059 (S/N D9G01073) Component Diesel Engine

Fluid AMERIGUARD (32 QTS)

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

Fuel content negligible. There is no indication of any contamination in the oil.

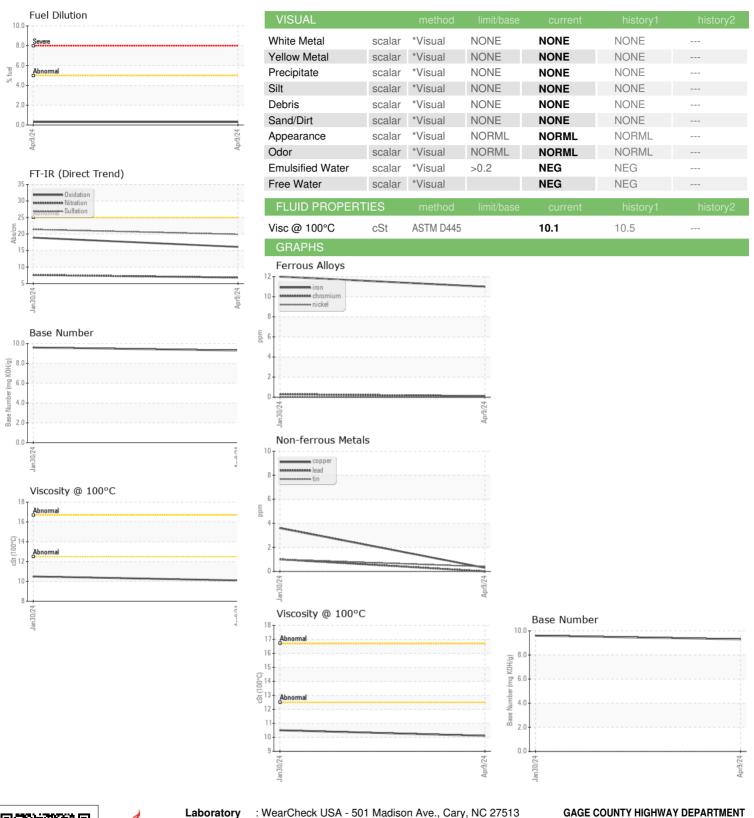
Fluid Condition

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

S)			Jan 2024	Apr2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006755	SBP0006402	
Sample Date		Client Info		09 Apr 2024	30 Jan 2024	
Machine Age	hrs	Client Info		7725	7450	
Oil Age	hrs	Client Info		275	269	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
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	11	12	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>25	1	1	
Lead	ppm	ASTM D5185m	>40	0	1	
Copper	ppm	ASTM D5185m	>330	<1	4	
Tin	ppm	ASTM D5185m	>15	<1	1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		10	27	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		61	50	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		1014	770	
Calcium	ppm	ASTM D5185m		1246	1372	
Phosphorus	ppm	ASTM D5185m		1137	914	
Zinc	ppm	ASTM D5185m		1333	1108	
Sulfur	ppm	ASTM D5185m		3843	2869	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	
Sodium	ppm	ASTM D5185m		1	2	
Potassium	ppm	ASTM D5185m	>20	0	0	
Fuel	%	ASTM D3524	>5	0.3	<1.0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	6.8	7.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	21.4	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	18.9	
Base Number (BN)	mg KOH/g	ASTM D2896		9.3	9.6	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: SBP0006755 Lab Number : 06149345

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Unique Number : 10979423

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

Received : 15 Apr 2024 **Tested** Diagnosed

: 19 Apr 2024 Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 19 Apr 2024 - Don Baldridge

US 68310 Contact: MARK KUHNKE mkuhnke@gagecountyne.gov T: (402)223-1395

823 SOUTH 8TH ST

BEATRICE, NE

 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) F: (402)223-1351