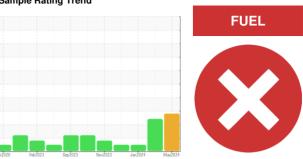


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **CATERPILLAR 972H 5585 (S/N A7D00894)** Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

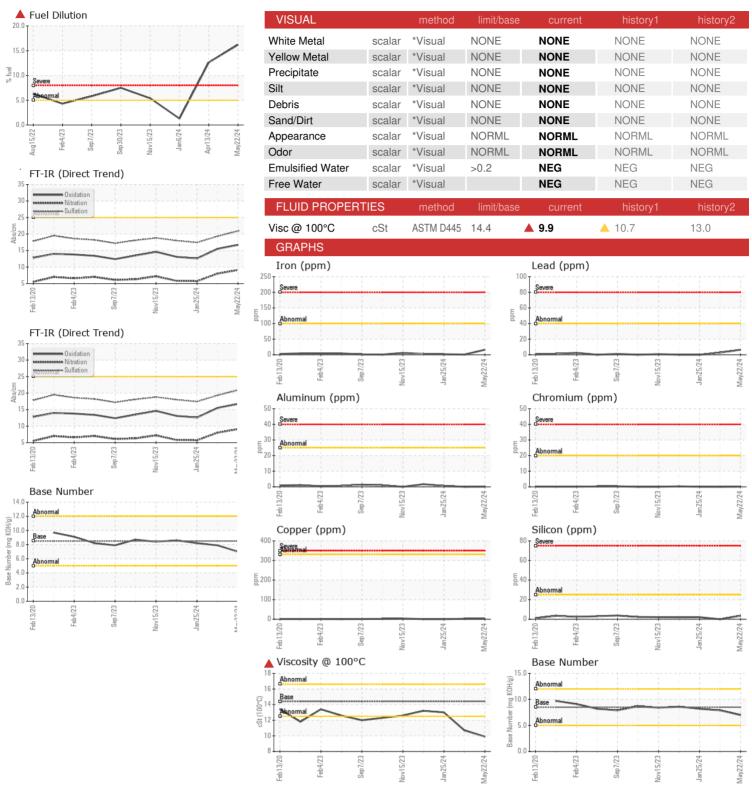
▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

AE 15W40 (C	GAL)	Feb 2020	Feb2023 Sep2023	Nov2023 Jan2024	May2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0912324	WC0924838	WC0858399
Sample Date		Client Info		22 May 2024	13 Apr 2024	25 Jan 2024
Machine Age	hrs	Client Info		5054	4712	4209
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
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	16	<1	2
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	<1
Lead	ppm	ASTM D5185m	>40	6	3	0
Copper	ppm	ASTM D5185m		3	2	<1
Tin	ppm	ASTM D5185m	>15	0	0	<1
√anadium	ppm	ASTM D5185m	7.0	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	7	11	27
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	45	46	54
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	450	698	694	795
Calcium	ppm	ASTM D5185m	3000	955	1014	1053
Phosphorus	ppm	ASTM D5185m	1150	834	877	940
Zinc	ppm	ASTM D5185m	1350	1034	980	1116
Sulfur	ppm	ASTM D5185m	4250	2935	3026	3062
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	0	2
Sodium	ppm	ASTM D5185m	>158	1	2	<1
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Fuel	%	ASTM D3524	>5	16.2	▲ 12.6	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.0	5.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	19.3	17.4
FLUID DEGRAD	ATION _	method	limit/base	current	history1	history2
Oxidation	Ahs/1mm	*ASTM D7414	>25	16.7	15.5	12.6
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 8.5	16.7 7.0	15.5 7.9	12.6 8.2



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0912324 Lab Number : 06199859 Unique Number : 11061982

Received

: 05 Jun 2024 **Tested** : 06 Jun 2024 Diagnosed

: 06 Jun 2024 - Wes Davis

Test Package : MOB 1 (Additional Tests: PercentFuel, TBN) 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.

INTERSTATE WASTE-NEWARK

110 EVERGREEN AVE, BAY 3 NEWARK, NJ

US 07114

Contact: Robert Witynski RWitynski@interstatewaste.com T:

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

Report Id: INT110NEW [WUSCAR] 06199859 (Generated: 06/06/2024 15:35:11) Rev: 1

Contact/Location: Robert Witynski - INT110NEW

F: