

WEAR CONTAMINATION FLUID CONDITION

NORMAL

MARGINAL

ABNORMAL



Machine Id
53.170L []
Component
Diesel Engine

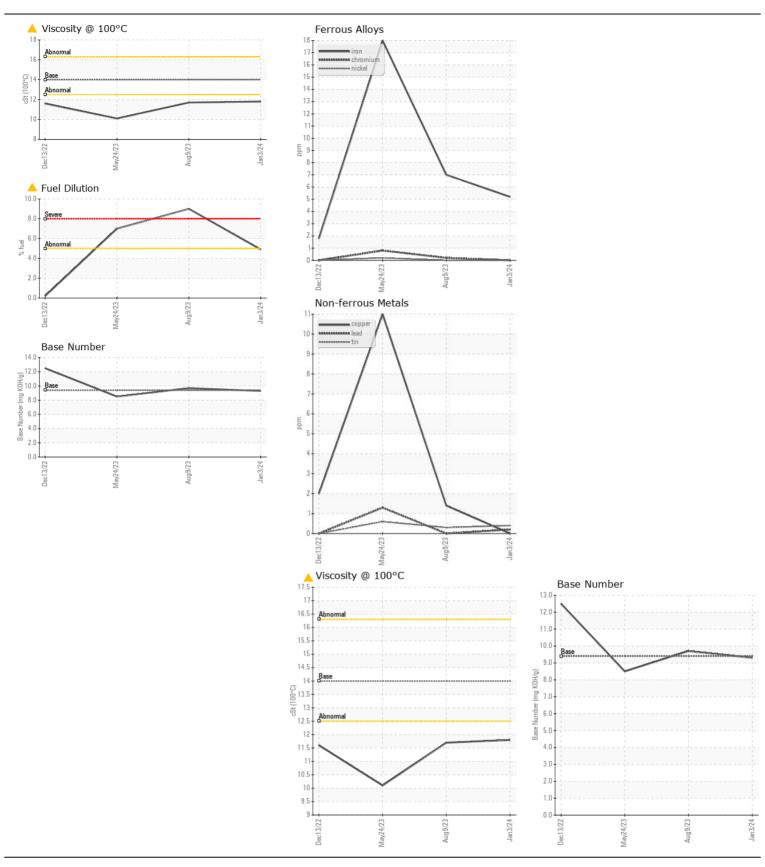
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OOW	Client Info	LIIIII/AUII	WC0873984	-	WC0808099
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Sample Date		Client Info		03 Jan 2024	09 Aug 2023	24 May 202
	Machine Age	hrs	Client Info		2040	1684	1372
	Oil Age	hrs	Client Info		356	250	672
	Filter Age	hrs	Client Info		356	250	672
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	SEVERE	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>100	5	7	18
	Chromium	ppm	ASTM D5185m		0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>25	2	<1	2
	Lead	ppm	ASTM D5185m	>40	<1	0	1
	Copper	ppm	ASTM D5185m	>330	0	1	11
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	4	6
	Potassium	ppm	ASTM D5185m	>20	<1	1	2
Light fuel dilution occurring. No other contaminants were detected in the oil.	Fuel	%	ASTM D3524	>5	4.9	9.0	7.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
	Nitration	Abs/cm		>20	8.1	8.3	10.4
	Sulfation	Abs/.1mm	*ASTM D7415		21.5	21.7	23.4
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
<u></u>	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	4
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		46	43	35
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	2	0
	Molybdenum	ppm	ASTM D5185m	0	37	38	38
	Manganese	ppm	ASTM D5185m	0	<1	<1	1
	Magnesium	ppm	ASTM D5185m	0	478	495	446
	Calcium	ppm	ASTM D5185m		1490	1604	1624
	Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m		743 865	730 869	823 1021
	Sulfur	ppm	ASTM D5185m		2384	2745	2805
		ppm		05			
	Ovidation	Ahe/1mm	* \(\C \ \(\/ \) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	ヘンム	ソコハ	ソココ	
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		21.0 9.3	21.1 9.7	23.6 8.5

Visc @ 100°C cSt ASTM D445 14

<u>11.7</u>

11.8

<u></u> 10.1







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10832268

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0873984 : 06060886

Recieved : 16 Jan 2024 Diagnosed : 18 Jan 2024 Diagnostician : Wes Davis

Test Package: CONST (Additional Tests: PercentFuel, 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.

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T: x: F: x:

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