WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL ABNORMAL

Area

MIXERS Machine Id [MIXERS] M298

Diesel Engine

{not provided} (--- GAL)

DECOMME	NID A TION	
RECOMME	NDAHON	

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

				/		
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LP0000186	WC0721605	PCA0066710
Sample Date		Client Info		07 Jul 2023	22 Nov 2022	19 Aug 2022
Machine Age	hrs	Client Info		16851	5853	5356
Oil Age	hrs	Client Info		600	600	600
Filter Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
		AOTH DE LOS	400		40	
Iron	ppm	ASTM D5185m	>100	15	16	15
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
AP 1 1		AOTAL DELOE	4		0	0

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	15	16	15
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	<1	2
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	2	2
Tin	ppm	ASTM D5185m	>15	0	<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

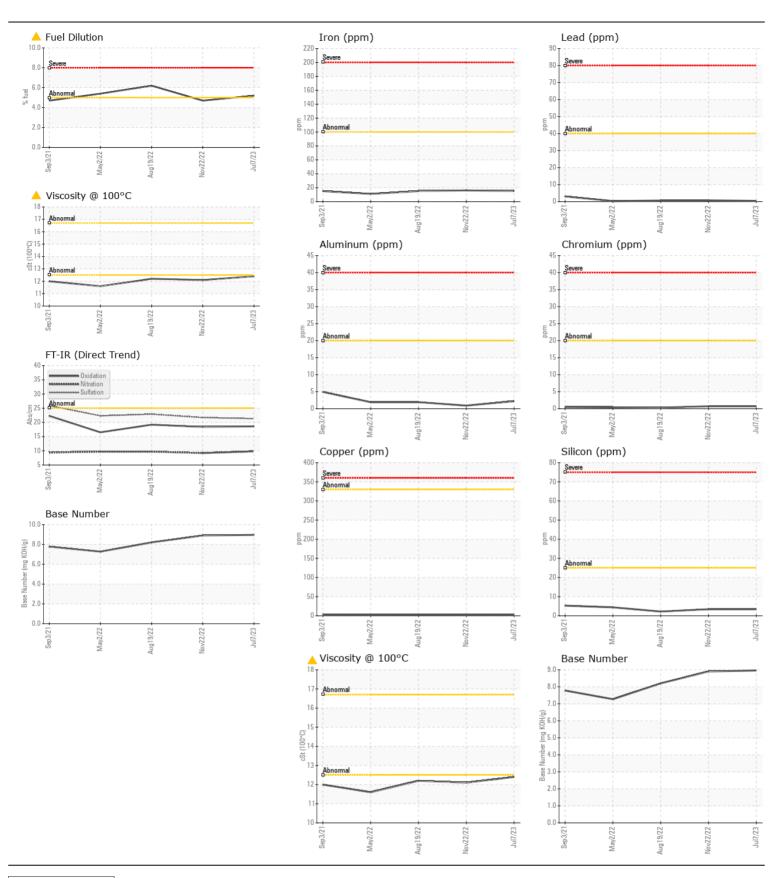
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>25	3	3	2
Potassium	ppm	ASTM D5185m	>20	4	2	3
Fuel	%	ASTM D3524	>5	▲ 5.2	4.7	6.2
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	*ASTM D7624	>20	9.8	9.2	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	21.7	22.9
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
Codium		ASTM D5185m		8	8	 5
Sodium	ppm	MOTIVI DO 180III		0	0	Э

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.

Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		8	8	5
Boron	ppm	ASTM D5185m		27	18	22
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		70	54	41
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		445	915	704
Calcium	ppm	ASTM D5185m		1642	1138	1093
Phosphorus	ppm	ASTM D5185m		982	1012	951
Zinc	ppm	ASTM D5185m		1209	1250	1091
Sulfur	ppm	ASTM D5185m		3945	3663	2937
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	18.4	19.2
Base Number (BN)	mg KOH/g	ASTM D2896		8.96	8.9	8.2
Visc @ 100°C	cSt	ASTM D445		<u> </u>	▲ 12.1	▲ 12.2





Certificate L2367

Laboratory Sample No.

Lab Number : 05894649

: LP0000186 Unique Number : 10550459

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

: 12 Jul 2023 Diagnosed

: 12 Jul 2023 - Wes Davis Test Package: MOB 2 (Additional Tests: PercentFuel)

: 10 Jul 2023

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)

CONSTRUCTION SERVICES

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