WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE ABNORMAL

Machine Id

F6

Diesel Engine

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

RE	COM	/IENDA	ΓΙΟΝ				
		,		,	ction system. The oil	,	ge a
the	time of sa	mpling has	been not	ed. \	Ne recommend an ea	arly	
					16 .1		

at resample to monitor this condition. Please specify the component make and model with your next sample. 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		WC0841450	WC0841485	
Sample Date		Client Info		27 Dec 2023	26 Jul 2023	
Machine Age	hrs	Client Info		17537	17104	
Oil Age	hrs	Client Info		0	107	
Filter Age	hrs	Client Info		0	107	
Oil Changed		Client Info		Changed	Not Changd	
Filter Changed		Client Info		Changed	Not Changd	
Sample Status				SEVERE	NORMAL	
Iron	ppm	ASTM D5185m	>100	32	13	
Chromium	ppm	ASTM D5185m	>20	<1	<1	

0

0

0

4 0

2

0

0

NONE

NONE

0

0

<1

3

<1

<1

NONE

NONE

ASTM D5185m >4

ASTM D5185m >3

ASTM D5185m >20

ASTM D5185m >330

ASTM D5185m >15

NONE

NONE

ASTM D5185m

ASTM D5185m

ASTM D5185m

*Visual

WEAR

All component wear rates are normal.

Nickel

Silver

Lead

Tin

Copper

Vanadium

White Metal

Yellow Metal

Titanium

Aluminum

ppm

ppm

ppm

ppm

mag

ppm

ppm

ppm

scalar

scalar *Visual

CONTAMINATION

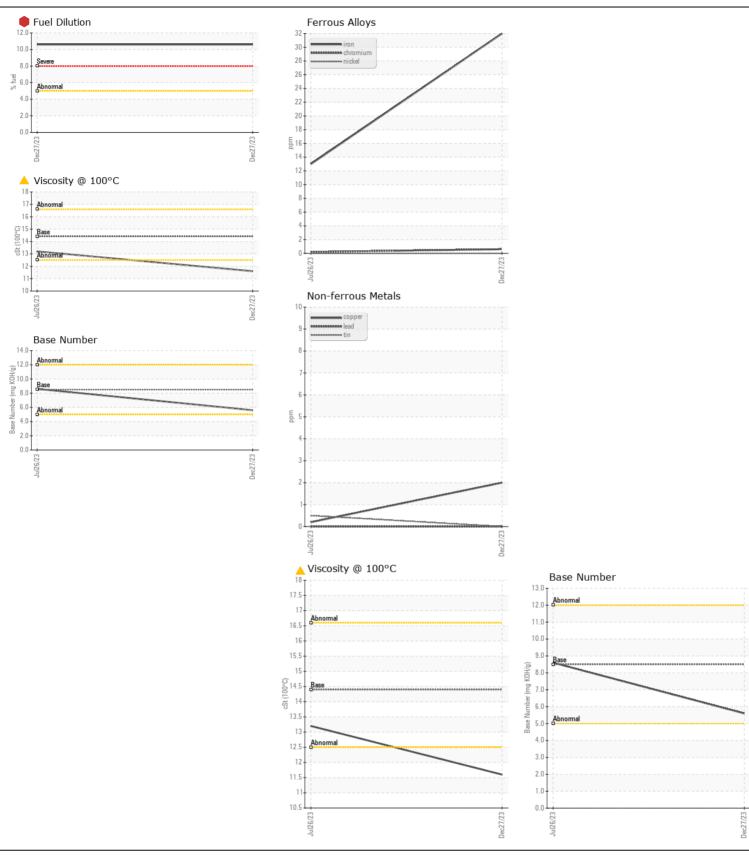
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

	Silicon	ppm	ASTM D5185m	>25	11	10
	Potassium	ppm	ASTM D5185m	>20	14	6
	Fuel	%	ASTM D3524	>5	10.6	<1.0
	Water		WC Method	>0.2	NEG	NEG
	Glycol		WC Method		NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.7	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	12.0	7.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	19.2
	Silt	scalar	*Visual	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
	Sodium	ppm	ASTM D5185m	>158	6	4

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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.

Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Sodium	ppm	ASTM D5185m	>158	6	4	
Boron	ppm	ASTM D5185m	250	2	7	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	64	63	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m	450	316	330	
Calcium	ppm	ASTM D5185m	3000	1733	1853	
Phosphorus	ppm	ASTM D5185m	1150	919	1007	
Zinc	ppm	ASTM D5185m	1350	1140	1234	
Sulfur	ppm	ASTM D5185m	4250	3149	3944	
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	14.8	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.6	8.6	
Visc @ 100°C	cSt	ASTM D445	14.4	<u></u> 11.6	13.2	







Laboratory Sample No.

Lab Number **Unique Number**

: WC0841450 : 06057215 : 10823164

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 10 Jan 2024 Diagnosed : 12 Jan 2024

Diagnostician : Wes Davis

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

Contact: Service Manager

309 Salina Road

Sewell, NJ

US 08080

T: F:

Apple Valley Waste - SEW Location

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)