WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL ABNORMAL

Machine Id

9459

Component Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		WC0853312	WC0796622	WC07966
	Sample Date		Client Info		28 Feb 2024	27 May 2023	01 Apr 20
	Machine Age	kms	Client Info		403177	336746	299837
	Oil Age	kms	Client Info		0	0	0
	Filter Age	kms	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Changed	Change
	Filter Changed		Client Info		Not Changd	Changed	Change
	Sample Status				ABNORMAL	ABNORMAL	ABNORM
/EAR	Iron	ppm	ASTM D5185(m)	>90	30	12	26
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		1	<1	2
	Nickel	ppm	ASTM D5185(m)		<1	0	<1
	Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
	Silver	ppm	ASTM D5185(m)	>2	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>20	5	2	4
	Lead	ppm	ASTM D5185(m)	>40	1	<1	4
	Copper	ppm	ASTM D5185(m)	>330	1	<1	<1
	Tin	ppm	ASTM D5185(m)	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
ONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	5	4	5
Elevated aluminum (AI) 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 moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185(m)	>20	11	5	0
	Fuel	%	ASTM D7593*	>3.0	3.7	<u>▲</u> 1.3	<u>△</u> 2.2
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>6	0.4	0.1	0.2
	Nitration	Abs/cm	ASTM D7624*	>20	10.8	9.2	11.3
	Sulfation	Abs/.1mm	ASTM D7415*	>30	23.2	19.7	29.0
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185(m)	>158	3	3	4
	Boron	ppm	ASTM D5185(m)		29	59	25
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185(m)		0	0	0
	Molybdenum	ppm	ASTM D5185(m)	100	<1	2	2
	Manganese	ppm	ASTM D5185(m)		0	<1	<1
	Magnesium	ppm	ASTM D5185(m)	450	716	723	813
	Calcium	ppm	ASTM D5185(m)	3000	1307	1385	1518
	Phosphorus	ppm	ASTM D5185(m)	1150	680	733	801
	Zinc	ppm	ASTM D5185(m)	1350	753	758	847
	0	le le	710 1111 20100(111)	1000	, 00	, 00	

Oxidation

Visc @ 100°C cSt

15.0

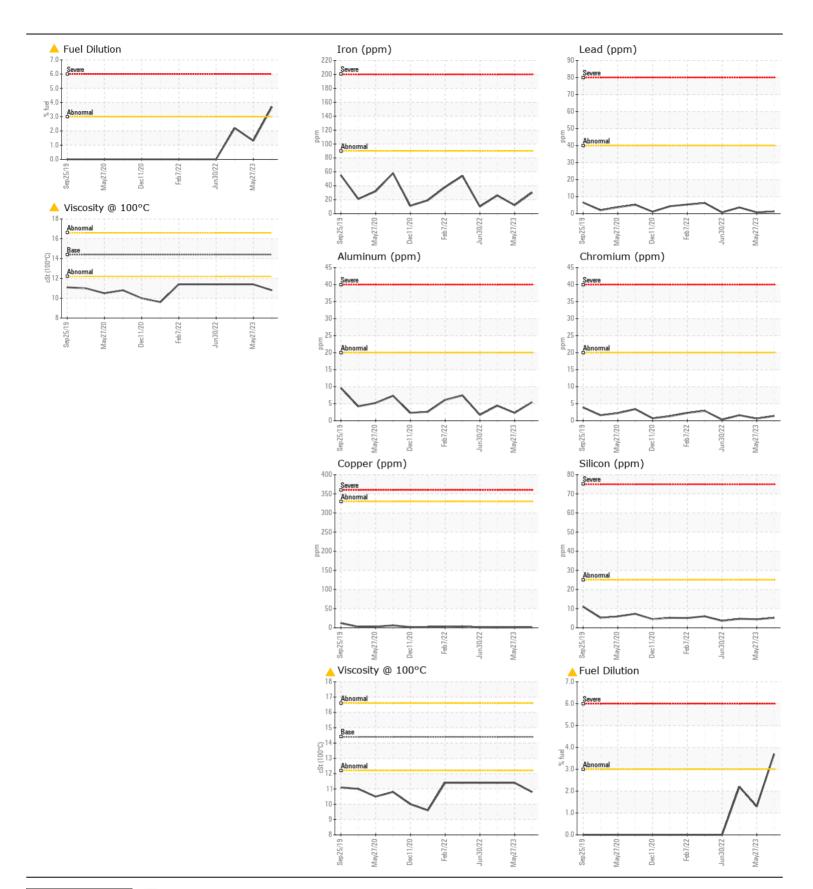
18.5

<u> 10.8</u>

ASTM D7279(m) 14.4

<u>▲</u> 11.4

21.7





CALA ISO 17025:2017 Accredited

Laboratory Sample No. Unique Number : 5737001

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Lab Number : 02619891

: WC0853312

Received **Tested** Diagnosed

: 05 Mar 2024 : 06 Mar 2024

: 06 Mar 2024 - Wes Davis

Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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