

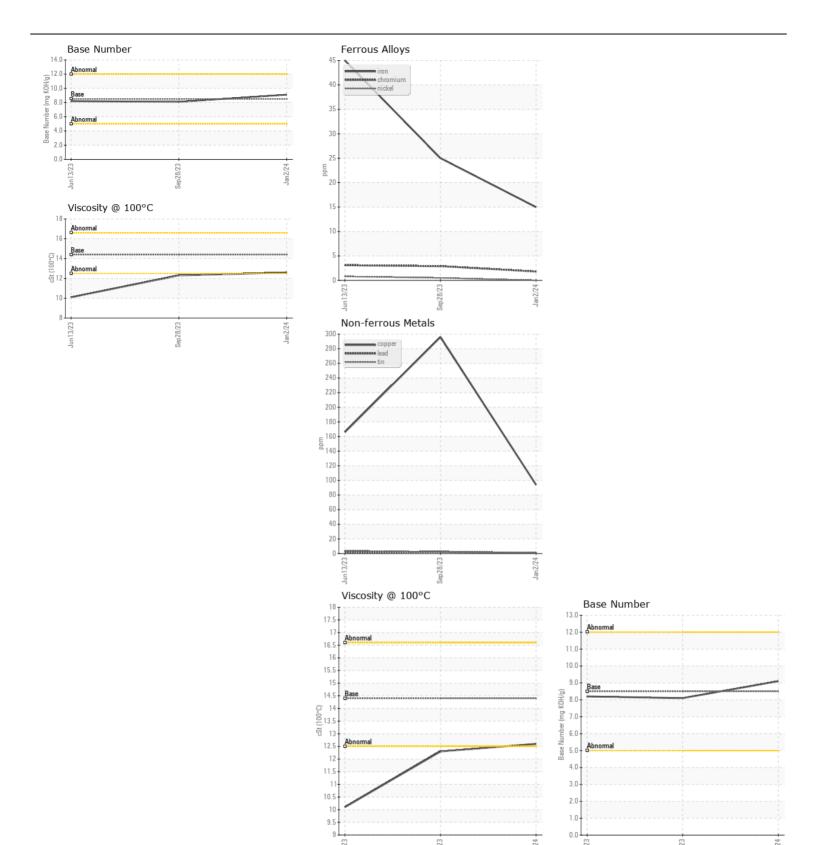
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

Component _

Diesel Engine							
DIESEL ENGINE OIL SAE 40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0871933		WC0817630
	Sample Date		Client Info		02 Jan 2024	28 Sep 2023	13 Jun 2023
	Machine Age	mls	Client Info		55975	0	24314
	Oil Age	mls	Client Info		12253	19468	10000
	Filter Age	mls	Client Info		12253	19468	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	15	25	45
	Chromium	ppm	ASTM D5185m	>20	2	3	3
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>4	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	<1	<1
	Aluminum	ppm	ASTM D5185m	>20	31	109	101
	Lead	ppm	ASTM D5185m	>40	<1	2	2
	Copper	ppm	ASTM D5185m	>330	94	296	166
	Tin	ppm	ASTM D5185m	>15	<1	2	4
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTABUNATION	O'''					_	
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 no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m		4	5	7
	Potassium	ppm	ASTM D5185m		64	232	266
	Fuel		WC Method	>5	<1.0	<1.0	0.2
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.4	0.4
	Nitration Sulfation	Abs/tmm	*ASTM D7624 *ASTM D7415	>20	6.7	7.5 19.6	8.6 23.5
	Silt	Abs/.1mm	*Visual	NONE	19.7 NONE	NONE	NONE
	Debris	scalar 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		*Visual	>0.2	NEG	NEG	NEG
			v 100a				
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>216	2	3	7
	Boron	ppm	ASTM D5185m	250	17	11	38
	Barium	ppm	ASTM D5185m	10	0	12	0
	Molybdenum	ppm	ASTM D5185m	100	67	60	41
	Manganese	ppm	ASTM D5185m		<1	2	4
	Magnesium	ppm	ASTM D5185m	450	956	850	518
	Calcium	ppm	ASTM D5185m	3000	1120	1207	1634
	Phosphorus	ppm	ASTM D5185m	1150	1055	909	698
	Zinc	ppm		1350	1264	1141	883
	Sulfur	ppm	ASTM D5185m		3005	2561	2305
	Oxidation	Abs/.1mm	*ASTM D7414		14.8	15.9	23.6
	Base Number (BN)	0 0	ASTM D2896	8.5	9.1	8.1	8.2
	Visc @ 100°C	cSt	ASTM D445	14.4	12.6	12.3	10.1







Certificate L2367

Laboratory Sample No. Lab Number

: WC0871933 : 06064875 Unique Number : 10836257 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024 : 19 Jan 2024 Diagnosed

Diagnostician : Wes Davis

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)

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