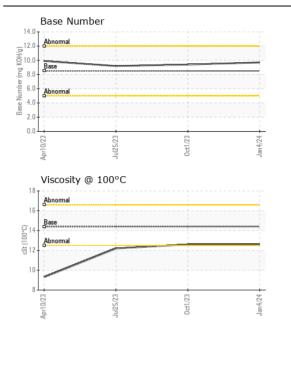


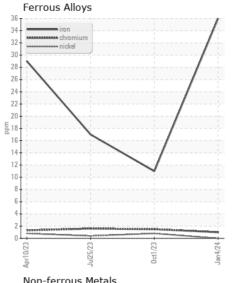
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

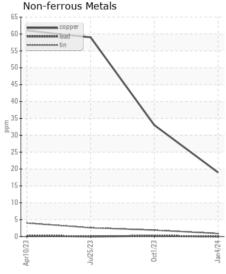
Machine Id **29297** 

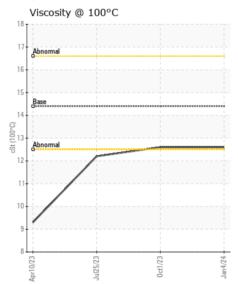
Component

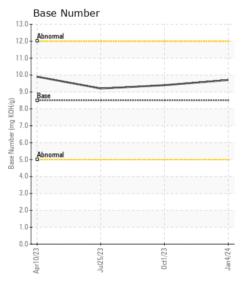
Diesel Engine							
DIESEL ENGINE OIL SAE 15W40 ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		WC0891634		WC0826613
	Sample Date		Client Info		04 Jan 2024	01 Oct 2023	25 Jul 2023
	Machine Age	mls	Client Info		45498	34573	24568
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>100	36	11	17
	Chromium	ppm	ASTM D5185m	>20	1	2	2
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	0
	Aluminum	ppm	ASTM D5185m	>20	6	10	12
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	19	33	59
	Tin	ppm	ASTM D5185m	>15	<1	2	3
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0:1:		AOTA DE40E	05	_	4	
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	4	4
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 no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		23	34	43
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot % Nitration	%	*ASTM D7844 *ASTM D7624		0.3 6.3	0.3 6.8	0.4 7.5
	Sulfation	Abs/cm Abs/.1mm	*ASTM D7624	>20	19.4	19.8	20.6
	Silt		*Visual	NONE	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			>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	0	0	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	<1	<1	3
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m	100	63	63	63
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		1039	973	996
	Calcium	ppm	ASTM D5185m		1140	1105	1204
	Phosphorus	ppm	ASTM D5185m		1104	1008	1021
	Zinc	ppm	ASTM D5185m		1272	1217	1215
	Sulfur	ppm	ASTM D5185m		3669	3458	3295
	Oxidation	Abs/.1mm	*ASTM D7414		14.8	15.0	16.0
	Base Number (BN)		ASTM D2896		9.7	9.4	9.2
	Visc @ 100°C	cSt	ASTM D445	14.4	12.6	12.6	<b>12.2</b>













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10831295 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0891634 Recieved : 12 Jan 2024 : 16 Jan 2024 : 06059913 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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