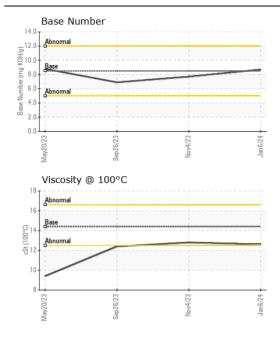
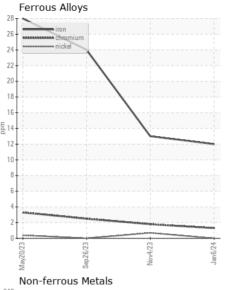


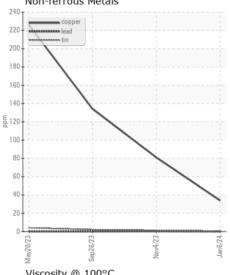
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

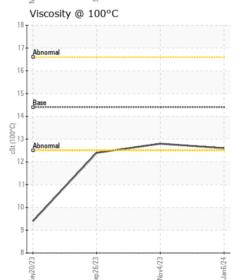
Machine Id 59169

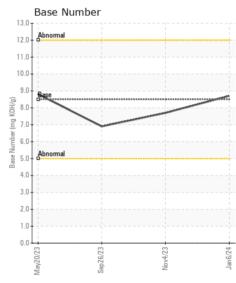
Component Diesel Engine							
DIESEL ENGINE OIL SAE 15W40 (QTS)							
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0891629	WC0874111	WC0840904
	Sample Date		Client Info		06 Jan 2024	04 Nov 2023	26 Sep 2023
	Machine Age	mls	Client Info		111694	89059	66022
	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	12	13	24
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	2	2
	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	9	11	35
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	34	81	134
	Tin	ppm	ASTM D5185m	>15	<1	1	2
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTABINATION					_	_	_
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 no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m		5	5	5
	Potassium	ppm	ASTM D5185m		25	25	83
	Fuel			>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	21	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.4	0.5
	Nitration	Abs/cm		>20	8.0	8.5	10.1
	Sulfation	Abs/.1mm	*ASTM D7415		20.3	20.9	22.4
	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 NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	Scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	0	0	3
	Boron	ppm	ASTM D5185m	250	<1	4	13
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	<1	0
	Molybdenum	ppm	ASTM D5185m	100	67	62	56
	Manganese	ppm	ASTM D5185m		0	<1	1
	Magnesium	ppm	ASTM D5185m	450	1061	834	867
	Calcium	ppm	ASTM D5185m	3000	1226	1339	1286
	Phosphorus	ppm	ASTM D5185m	1150	1117	1002	912
	Zinc	ppm	ASTM D5185m	1350	1322	1245	1171
	Sulfur	ppm	ASTM D5185m	4250	3493	3135	2217
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	17.6	20.5
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.7	7.7	6.9
	Visc @ 100°C	cSt	ASTM D445	14.4	12.6	12.8	▲ 12.4













Certificate L2367

Laboratory Sample No. Lab Number

: WC0891629 : 06059930 Unique Number : 10831312 Test Package : FLEET

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