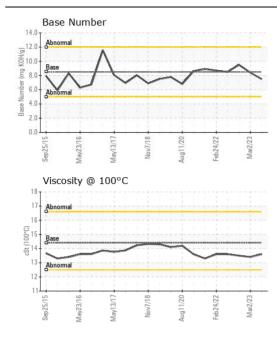
**WEAR** CONTAMINATION **FLUID CONDITION** 

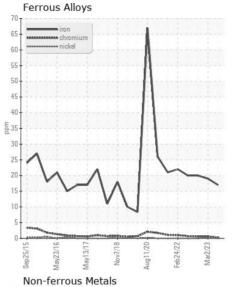
**NORMAL NORMAL NORMAL** 

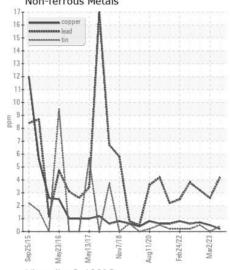
Machine Id **47182** 

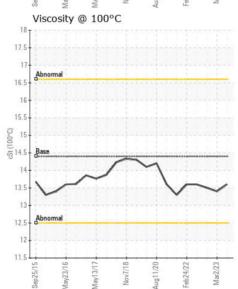
## Component Diesel Fngine

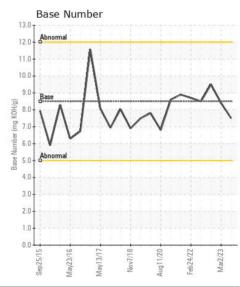
Diesel Engine DIESEL ENGINE OIL SAE 15W40 ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TIESOMMENDATION	Sample Number	OOM	Client Info	Littleyton	WC0841984	WC0742237	WC0742372
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		17 Dec 2023	02 Mar 2023	03 Nov 2022
	Machine Age	mls	Client Info		732335	676134	652653
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed	0	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	17	19	20
WEAR	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m	77	0	0	0
	Silver	ppm	ASTM D5185m	~3	0	0	0
	Aluminum	ppm	ASTM D5185m		6	10	8
	Lead	ppm	ASTM D5185m		4	3	3
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m	/10	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
			Visuai				INOINE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	6	5
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.	Potassium	ppm	ASTM D5185m	>20	10	20	16
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	10.4	10.4	11.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	22.5	23.5
	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
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	1	3	4
	Boron	ppm	ASTM D5185m		11	3	2
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		0	0	0
	Molybdenum	ppm	ASTM D5185m		65	70	67
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	1051	1150	1087
	Calcium	ppm	ASTM D5185m		1155	1242	1214
	Phosphorus	ppm	ASTM D5185m		1181	1189	1114
	Zinc	ppm	ASTM D5185m		1421	1492	1393
	Sulfur	ppm	ASTM D5185m		3328	4278	3793
	Oxidation	Abs/.1mm	*ASTM D7414		19.2	18.3	19.3
	Base Number (BN)				7.5	8.4	9.5
	Visc @ 100°C	cSt	ASTM D445		13.6	13.4	13.5













Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number** Test Package : FLEET

: WC0841984 : 06064885 : 10836267

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

: Wes Davis Diagnostician

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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