

WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

46438 Component _

Diesel Engine							
DIESEL ENGINE OIL SAE 15W40 (QTS)							
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the	Sample Number		Client Info		WC0866938	WC0798025	
component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date	l.	Client Info		04 Jan 2024	10 Oct 2023	28 Sep 2022
	Machine Age	mls	Client Info		92283	81851	61844
	Oil Age	mls	Client Info		10051	8086	0
	Filter Age	mls	Client Info		10051	8086	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	22	27	26
***	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	2
	Aluminum	ppm	ASTM D5185m	>20	7	11	24
	Lead	ppm	ASTM D5185m	>40	0	0	1
	Copper	ppm	ASTM D5185m	>330	4	21	2
	Tin	ppm	ASTM D5185m	>15	<1	0	2
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	4	8
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	16	37
	Fuel		WC Method		<1.0	1.4	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624		9.0	8.2	7.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.1	21.4
	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
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	0	2	2
1 ESIB SONBITION	Boron	ppm	ASTM D5185m		2	5	8
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		62	73	59
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m	450	935	927	981
	Calcium	ppm	ASTM D5185m		1019	1068	1227
	Phosphorus	ppm	ASTM D5185m		1016	973	1142
	Zinc	ppm	ASTM D5185m		1208	1226	1333
	Sulfur	ppm	ASTM D5185m		3147	3183	3619
	Oxidation	Abs/.1mm	*ASTM D7414		16.3	15.0	16.3
	Base Number (BN)		ASTM D2896		8.6	8.1	10.5

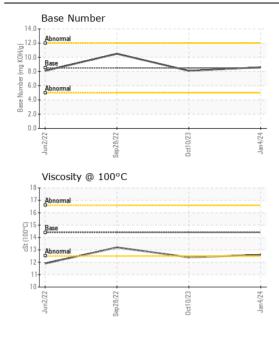
Visc @ 100°C cSt

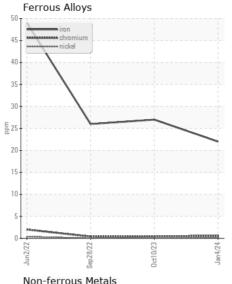
ASTM D445 14.4

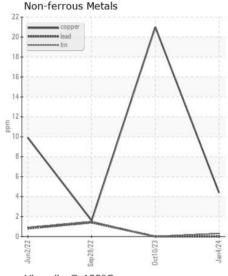
12.6

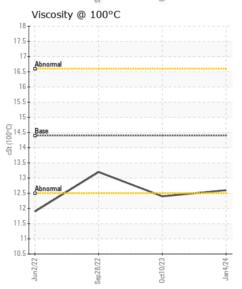
12.4

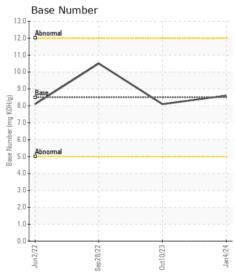
13.2













Certificate L2367

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

: WC0866938 : 06058642 : 10830024

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 11 Jan 2024 : 12 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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