WEAR CONTAMINATION FLUID CONDITION **ABNORMAL ABNORMAL NORMAL**

Machine Id YRD9

Component

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
	Sample Number		Client Info		IL0034237		
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		15 Dec 2023		
	Machine Age	hrs	Client Info		1538		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	<u> </u>		
Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	5		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>20	A 7		
	Lead	ppm	ASTM D5185m	>40	0		
	Copper	ppm	ASTM D5185m	>330	32		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONT A MINIATION	0:1:		40TM DE40E	05			
CONTAMINATION Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Silicon	ppm	ASTM D5185m		<u>^</u> 37		
	Potassium	ppm	ASTM D5185m		2		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	0/	WC Method	0	NEG		
	Soot %	%	*ASTM D7844		2.1		
	Nitration	Abs/cm	*ASTM D7624		15.6		
	Sulfation	Abs/.1mm	*ASTM D7415		29.0		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		5		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	39	0		
	Barium	ppm	ASTM D5185m	1	0		
	Molybdenum	ppm	ASTM D5185m	49	60		
	Manganese	ppm	ASTM D5185m	1	8		
	Magnesium	ppm	ASTM D5185m	616	951		
	Calcium	ppm	ASTM D5185m		1074		
	Phosphorus	ppm	ASTM D5185m	899	897		
	Zinc	nnm	ASTM D5185m	1060	1170		
	21110	ppm	ASTIVI DSTOSIII	1009	1170		

Base Number (BN) mg KOH/g ASTM D2896 6.9

ppm ASTM D5185m 2624

ASTM D445 13.6

Abs/.1mm *ASTM D7414 >25

Sulfur

Oxidation

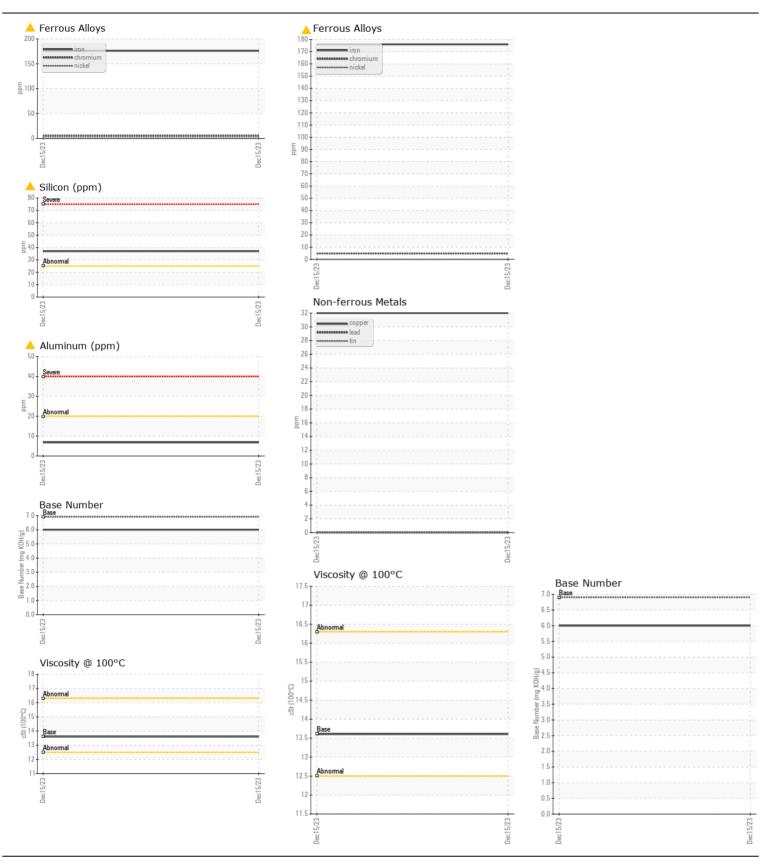
Visc @ 100°C cSt

2743

27.2

6.0

13.6







Laboratory Sample No. Lab Number **Unique Number**

: 06057266 : 10823215 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 10 Jan 2024 : IL0034237 Diagnosed : 12 Jan 2024 : Don Baldridge Diagnostician

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367 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.

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