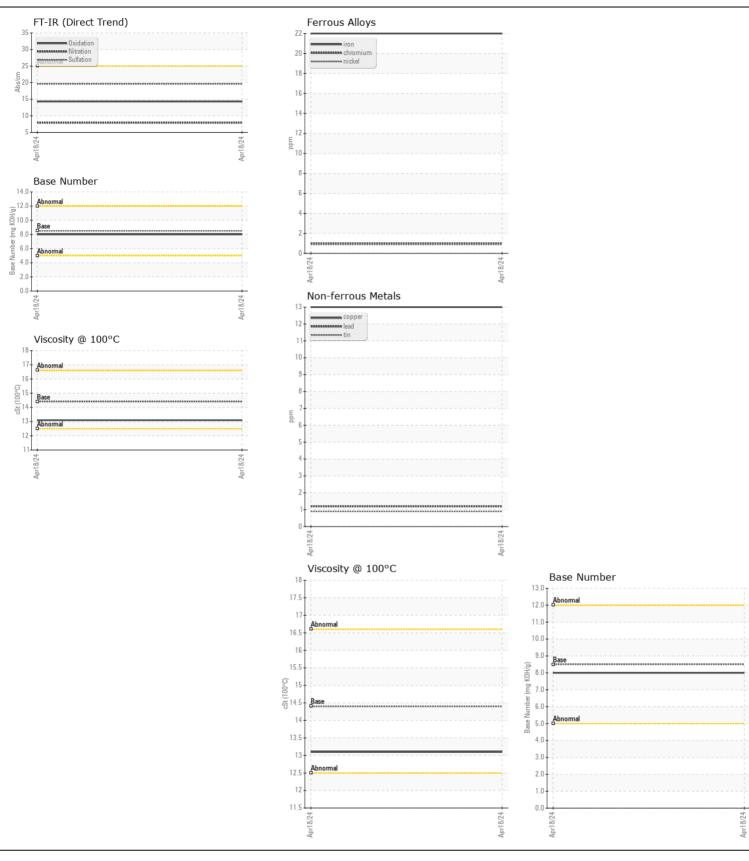
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

FSP145487
Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0903208		
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		18 Apr 2024		
	Machine Age	mls	Client Info		42007		
	Oil Age	mls	Client Info		20000		
	Filter Age	mls	Client Info		20000		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	nnm	ASTM D5185m	>100	22		
WEAR	Chromium	ppm	ASTM D5185m		1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	>4	<1		
	Silver	ppm	ASTM D5185m	~3	0		
	Aluminum	ppm	ASTM D5185m		13		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		13		
	Tin	ppm	ASTM D5185m		<1 <1		
	Vanadium	ppm	ASTM D5185m	>10	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
			v 100aa1				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8		
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	>20	23		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.8		
	Nitration	Abs/cm	*ASTM D7624	>20	7.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6		
	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	>158	3		
EOID CONDITION	Boron	ppm	ASTM D5185m		18		
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		
	Molybdenum	ppm	ASTM D5185m		58		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m	450	892		
	Calcium	ppm	ASTM D5185m	3000	1254		
	Phosphorus	ppm	ASTM D5185m		1210		
	Zinc	ppm	ASTM D5185m		1281		
	Sulfur	ppm	ASTM D5185m		4010		
	Oxidation	Abs/.1mm	*ASTM D7414		14.3		
	Base Number (BN)				8.0		
	Visc @ 100°C	cSt	ASTM D445		13.1		







Certificate L2367

Laboratory Sample No.

: WC0903208 Lab Number : 06161134 Unique Number: 10996557 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Apr 2024 **Tested** : 29 Apr 2024

Diagnosed : 29 Apr 2024 - Wes Davis

FRESHPOINT 8801 EXCHANGE DRVIE ORLANDO, FL

US 32809 Contact: CRAIG EVANS

evans_craig@sbcglobal.net T:

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)

F: