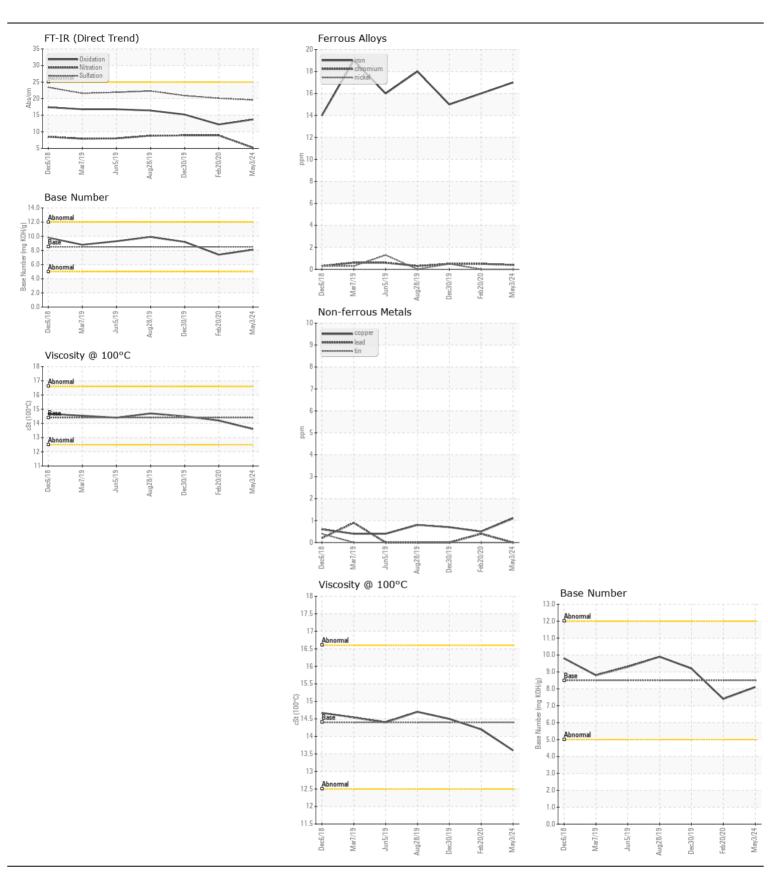
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

FSP 132139
Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0903138	WC0331901	WC033189
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		03 May 2024	20 Feb 2020	30 Dec 201
	Machine Age	mls	Client Info		2806525	209509	202028
	Oil Age	mls	Client Info		60000	0	0
	Filter Age	mls	Client Info		60000	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>90	17	16	15
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		12	6	7
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		1	<1	<1
	Tin	ppm	ASTM D5185m	>15	0	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ONTAMINATION	Silicon	nnm	ASTM D5185m	> 25	5	4	4
FONTAIMINATION	Potassium	ppm	ASTM D5185m		2	2	5
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>></i> 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~ 6	0.2	0.9	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	5.2	8.9	8.9
	Sulfation	Abs/.1mm	*ASTM D7415		19.6	20.1	20.9
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Cadium		ACTM DE10Em	. 150			
LUID CONDITION	Sodium	ppm	ASTM D5185m ASTM D5185m		2	2	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm			356 0	16 0	69
	Barium	ppm	ASTM D5185m ASTM D5185m		77	14	0 35
	Molybdenum Manganese	ppm		100			
	Magnesium	ppm	ASTM D5185m ASTM D5185m	450	<1 463	<1 78	<1 360
	Calcium	ppm	ASTM D5185m		463 1445	2332	1872
	Phosphorus	ppm	ASTM D5185m		1031	832	1004
	Zinc	ppm	ASTM D5185m		1220	994	1132
	Sulfur	ppm	ASTM D5185m			2808	2715
	Oxidation	ppm Abc/ 1mm	*ASTM D7414		3838 13.7	12.2	15.2
	Base Number (BN)	Abs/.1mm mg KOH/g			8.1	7.4	9.2
	Dase Mullipel (DIV)	IIIU KUT/U	40 LIVI DZ030	0.0	O. I	7.4	3.2







Certificate L2367

Laboratory Sample No.

Lab Number : 06211146 Unique Number : 11084010 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0903138

Received **Tested** Diagnosed

: 18 Jun 2024 : 18 Jun 2024 - Wes Davis

: 14 Jun 2024

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: