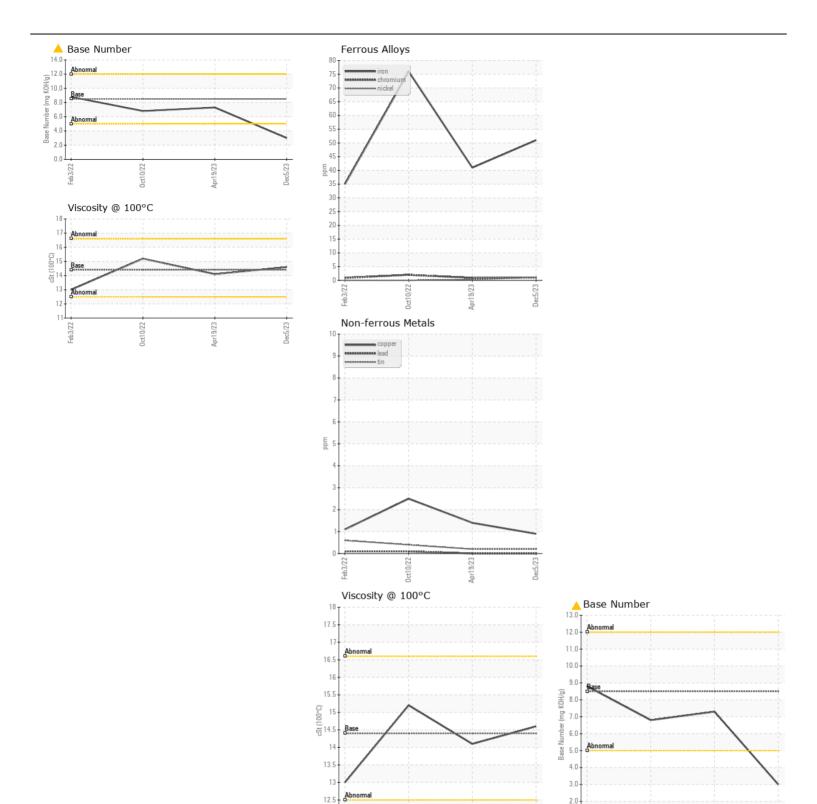
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL ABNORMAL** 

Machine Id FSP 133838

Component
Diesel Fngine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0874091	WC0797906	WC073873
	Sample Date		Client Info		05 Dec 2023	19 Apr 2023	10 Oct 202
	Machine Age	mls	Client Info		0	0	276224
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0 Changed	0
	Oil Changed Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status		Client into		Changed ABNORMAL	Changed NORMAL	N/A NORMAI
	Sample Status				ADINUNIMAL		NORIVIAL
WEAR	Iron	ppm	ASTM D5185m	>100	51	41	76
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	<1	2
	Nickel	ppm	ASTM D5185m	>4	1	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		7	5	8
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		<1	1	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m	NONE	<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	5	9
	Potassium	ppm	ASTM D5185m	>20	5	6	9
There is no indication of any contamination in the oil.	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	1.4	1.1	2.3
	Nitration	Abs/cm	*ASTM D7624	>20	13.6	14.0	18.1
	Sulfation	Abs/.1mm	*ASTM D7415		27.1	27.1	37.5
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	NORM NORM
	Emulsified Water			>0.2	NEG	NEG	NEG
	Linuisinea vvalei	Scalai	Visuai	70.2			INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	<1	2
The BN level is low.	Boron	ppm	ASTM D5185m	250	<1	0	1
The Biv level is low.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	75	75	77
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		1179	1071	1210
	Calcium	ppm	ASTM D5185m		1229	1223	1493
	Phosphorus	ppm	ASTM D5185m		1218	1163	1319
	Zinc	ppm	ASTM D5185m		1536	1442	1644
	Sulfur	ppm	ASTM D5185m		3071	3444	3414
	Oxidation	Abs/.1mm	*ASTM D7414		24.7	23.4	33.2
	Base Number (BN)				▲ 3.0	7.3	6.8
	Visc @ 100°C	cSt	ASTM D445	14.4	14.6	14.1	15.2







Laboratory Sample No. Lab Number

: WC0874091 : 06074459 Unique Number : 10856550 Test Package : FLEET

11.5

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 30 Jan 2024 : 31 Jan 2024 Diagnosed Diagnostician : Sean Felton

Apr19/23

0.0

Dec5/23 -

**FRESHPOINT** 8801 EXCHANGE DRVIE ORLANDO, FL US 32809

Apr19/23

Contact: CRAIG EVANS evans\_craig@sbcglobal.net T:

\* - 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)

Oct10/22

0ct10/22

F: