WEAR CONTAMINATION **FLUID CONDITION**

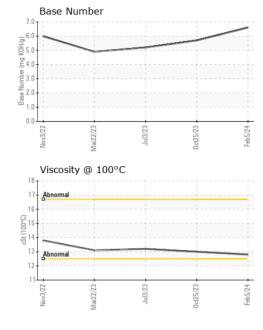
NORMAL NORMAL NORMAL

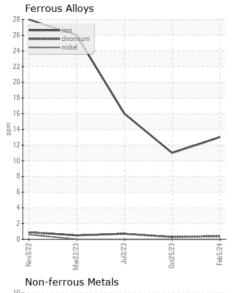
TRUCK - URBAN

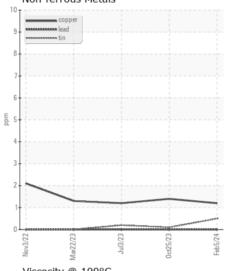
PETERBILT 70

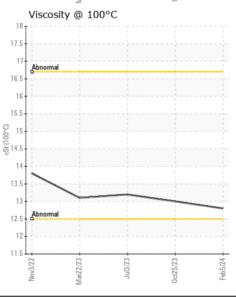
Component Diesel Engine

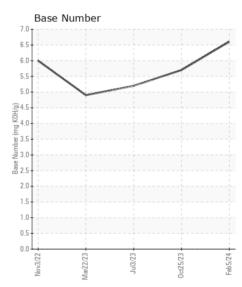
RECOMMENDATION	Toot	11014	Mother	Linnit/Ala.	Current	I liete : :4	Lliete
RECOMMENDATION	Test	UOM	Method	Limit/Abn	PE0003199	History1	History2 PE0001313
Resample at the next service interval to monitor. (Customer Sample Comment: Revised hour meter reading)	Sample Number Sample Date		Client Info		05 Feb 2024	PE0001941 25 Oct 2023	03 Jul 2023
	Machine Age	hrs	Client Info		11700	4923	4404
	Oil Age	hrs	Client Info		485	519	493
	Filter Age	hrs	Client Info		485	519	493
	Oil Changed	0	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	13	11	16
VEAIL	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	4	6
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		1	1	1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	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	>25	5	5	5
	Potassium	ppm	ASTM D5185m		3	3	5
There is no indication of any contamination in the oil.	Fuel	1-1-	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	0.4	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	10.5	10.0	11.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	23.4	23.7
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	3	3
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		22	188	31
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		66	74	80
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		782	275	50
	Calcium	ppm	ASTM D5185m		1136	1347	2133
	Phosphorus	ppm	ASTM D5185m		995	944	983
	Zinc	ppm	ASTM D5185m		1230	1103	1197
	Sulfur Oxidation	ppm Abs/.1mm	*ASTM D5185m	- OF	3090	2935	4427
		AUS/. HIIIM	491M1D/414	><0	18.6	20.4	21.6
	Base Number (BN)		ASTM DOSOS		6.6	5.7	5.2













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PE0003199 Lab Number : 06089407

Unique Number : 10876852

Received **Tested**

Diagnosed

: 15 Feb 2024 : 16 Feb 2024 - Don Baldridge

: 14 Feb 2024

Test Package : CONST (Additional Tests: FT-IR, ICP, KV100, SCREEN, TBN) 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.

PetroCard - Aberdeen

110 Commerce St Aberdeen, WA US 98520

Contact: ED ROZMARYN erozmaryn@petrocard.com

T: F:

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