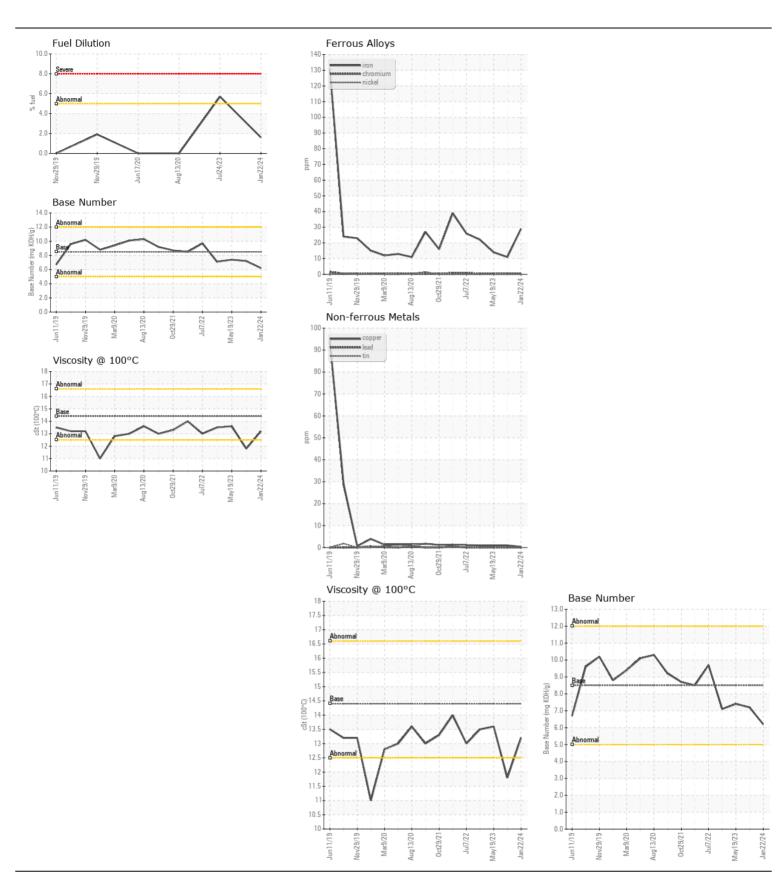


**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

## PETERBILT 220 TTK6209 (S/N 3BPPHM6X6KF592494)

Component Diesel Engine							
DIESEL ENGINE OIL SAE 15W40 ( GAL)							
	Toot	LIONA	Motherd	Limit/Alas	Commercial	Lliete :: :4	Lliete : : : 0
RECOMMENDATION  The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the brand, type, and viscosity of the oil on your next sample.	Test Sample Number	UOM	Method Client Info	Limit/Abn	Current ARI0006836	History1 ARI0006892	History2 ARI0006904
	Sample Number		Client Info		22 Jan 2024	24 Jul 2023	19 May 2023
	Machine Age	mls	Client Info		53363	49081	46836
	Oil Age	mls	Client Info		4282	5325	3080
	Filter Age	mls	Client Info		4282	5325	3080
	Oil Changed	11110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	Ü	NORMAL
WEAR	Iron	ppm	ASTM D5185m	<110	29	11	14
WEAIT	Chromium	ppm	ASTM D5185m		<1	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		5	7	2
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		<1	1	<1
	Tin	ppm	ASTM D5185m	>4	<1	0	0
	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	>30	6	4	4
CONTAININATION	Potassium	ppm	ASTM D5185m		4	4	3
Light fuel dilution occurring. No other contaminants were detected in the oil.	Fuel	%	ASTM D3524		1.6	<b>△</b> 5.7	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.8	0.6	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.0	7.4	7.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	19.6	22.7
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	1	<1	0
	Boron	ppm	ASTM D5185m	250	336	146	405
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	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	81	38	89
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	371	273	367
	Calcium	ppm	ASTM D5185m		1204	1806	1485
	Phosphorus	ppm	ASTM D5185m		990	926	1059
	Zinc	ppm	ASTM D5185m		1188	1154	1240
	Sulfur	ppm	ASTM D5185m		2947	3877	3555
	Oxidation	Abs/.1mm	*ASTM D7414		18.4	12.5	16.7
	Base Number (BN)				6.2	7.2	7.4
	Visc @ 100°C	cSt	ASTM D445	14.4	13.2	11.8	13.6







Report Id: AR3950BAL [WUSCAR] 06083018 (Generated: 02/08/2024 16:37:14) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 **Lab Number** : 06083018

: ARI0006836

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

Unique Number : 10870463

: 07 Feb 2024 Received **Tested** 

: 08 Feb 2024 : 08 Feb 2024 - Wes Davis Diagnosed

**INSITUFORM TECHNOLOGIES, INC** 709 EAST ORDNANCE ROAD SUITE 501 BALTIMORE, MD

US 21226 Contact: ALBERT FRIEDRICH

AFRIEDRICH@INSITUFORM.COM T: (240)388-1832

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Test Package : CONST ( Additional Tests: PercentFuel, TBN )

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

F: