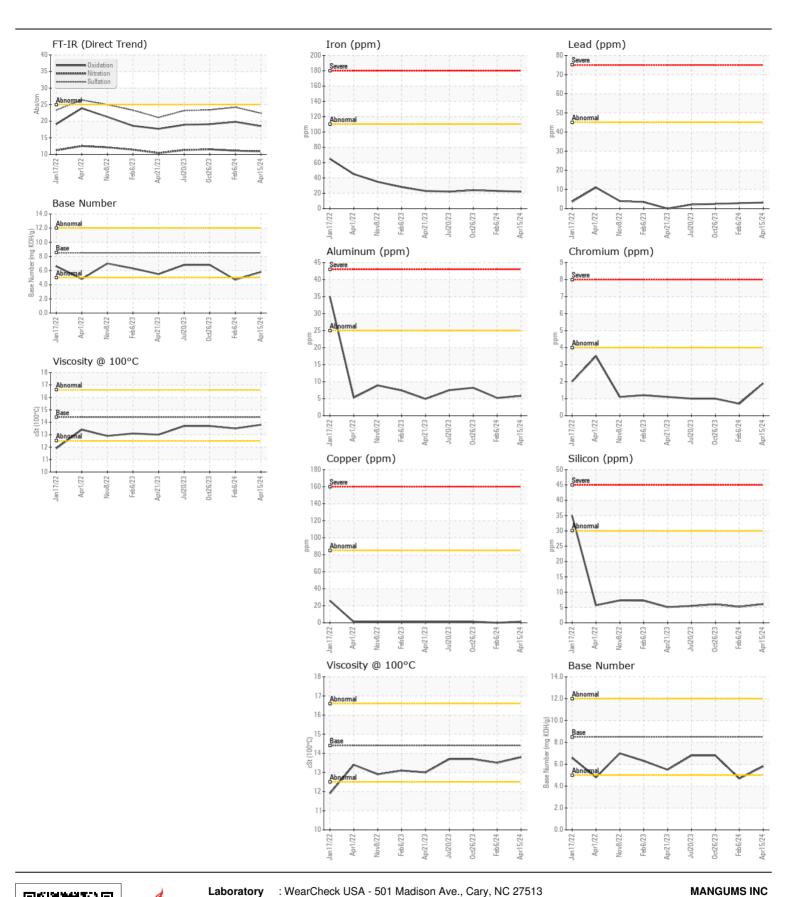
**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

Machine Id

## PETERBILT 343 (S/N 1XPCD40X2ND795749) Component Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0893767	WC0893941	WC085099
	Sample Date		Client Info		15 Apr 2024	06 Feb 2024	26 Oct 202
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>110	22	23	24
	Chromium	ppm	ASTM D5185m	>4	2	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		2	0	<1
	Titanium	ppm	ASTM D5185m		<u>-</u> <1	0	0
	Silver	ppm	ASTM D5185m	<b>\2</b>	<1	0	<1
	Aluminum	ppm	ASTM D5185m		6	5	8
	Lead	ppm	ASTM D5185m		3	3	2
	Copper	ppm	ASTM D5185m	-	1	0	1
	Tin	ppm	ASTM D5185m		2	<1	<1
	Vanadium		ASTM D5185m	74	<1	0	0
	White Metal	ppm	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar		NONE	NONE	NONE	
	reliow ivietal	scalar	*Visual	INONE	NONE	INOINE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	5	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		7	3	12
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.6	1.2
	Nitration	Abs/cm	*ASTM D7624	>20	10.9	11.1	11.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	24.2	23.4
	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
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	2	1	0
-	Boron	ppm	ASTM D5185m		11	27	2
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	0	4
	Molybdenum	ppm	ASTM D5185m		74	74	63
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	697	502	913
	Calcium	ppm	ASTM D5185m		1495	1520	1058
	Phosphorus	ppm	ASTM D5185m		1198	957	1024
	Zinc	ppm	ASTM D5185m		1326	1221	1200
	Sulfur	ppm	ASTM D5185m		3862	3078	3252
	Oxidation	Abs/.1mm	*ASTM D3163111		18.5	19.8	19.1
	CANDONION	/\uo/.	A011VI D/414	<i>&gt;</i> _U	10.5	13.0	13.1
	Base Number (BN)	ma K∩⊔/~	ACTM DOSOG	8.5	5.8	4.7	6.8







Certificate L2367

Sample No.

Laboratory

: WC0893767 Lab Number : 06152531 Unique Number: 10982609

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

Received **Tested** Diagnosed

Test Package : MOB 1 ( Additional Tests: TBN )

: 18 Apr 2024

: 17 Apr 2024

: 18 Apr 2024 - Wes Davis

P.O. BOX 7177 WILSON, NC US 27895 Contact: ALAN BAGLEY

alanb@mangumsinc.com 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: