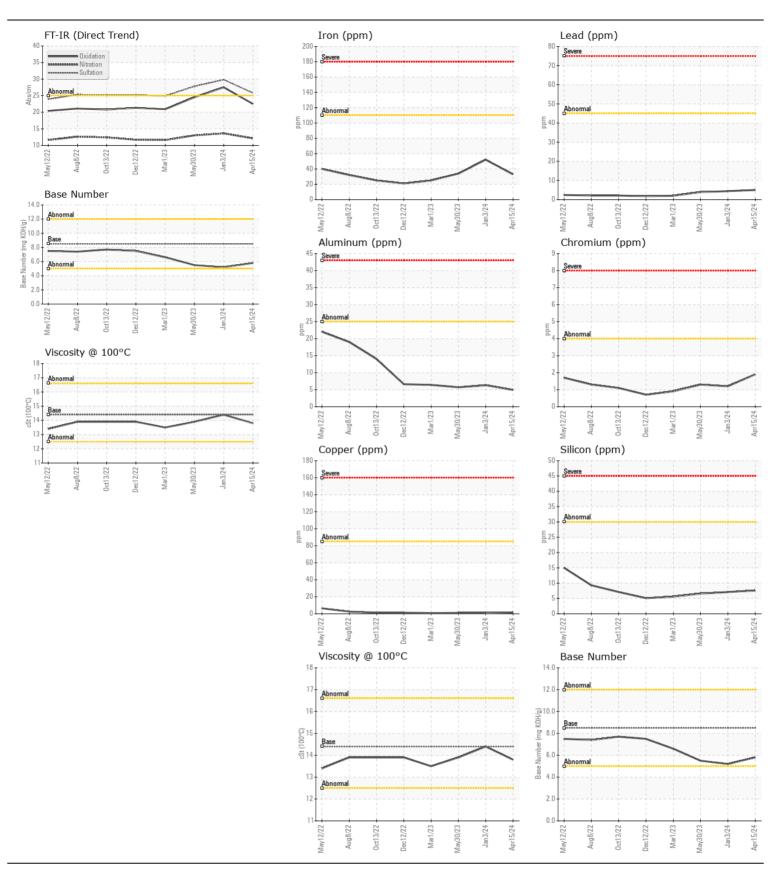
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

PETERBILT 344 (S/N 1XPCD40X9ND795750) 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. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.	Sample Number	OOW	Client Info	LITTIO TOTT	WC0893769	WC0867915	,
	Sample Date		Client Info		15 Apr 2024	03 Jan 2024	30 May 2023
	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	33	52	34
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>4	2	1	1
	Nickel	ppm	ASTM D5185m	>2	2	<1	1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>2	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>25	5	6	6
	Lead	ppm	ASTM D5185m	>45	5	4	4
	Copper	ppm	ASTM D5185m	>85	2	1	1
	Tin	ppm	ASTM D5185m	>4	2	1	2
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	8	7	7
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	6	10	6
	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		1.1	1.8	1.8
	Nitration	Abs/cm	*ASTM D7624	>20	12.1	13.6	13.0
	Sulfation	Abs/.1mm	*ASTM D7415		25.8	29.8	27.8
	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		2	0	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		10	11	5
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	10	0
	Molybdenum	ppm	ASTM D5185m	100	71	68	64
	Manganese	ppm	ASTM D5185m		2	<1	<1
	Magnesium	ppm	ASTM D5185m		915	874	1020
	Calcium	ppm	ASTM D5185m	3000	1275	1121	1214
	Phosphorus	ppm	ASTM D5185m		1204	1038	1112
	Zinc	ppm	ASTM D5185m		1344	1157	1424
	Sulfur	ppm	ASTM D5185m		3540	2955	3544
	Oxidation	Abs/.1mm	*ASTM D7414		22.5	27.5	24.5
	Base Number (BN)				5.8	5.2	5.5
	Visc @ 100°C	cSt	ASTM D445	14.4	13.8	14.4	13.9







Certificate L2367

Laboratory Sample No.

Lab Number : 06152529

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0893769

Received **Tested** Unique Number: 10982607 Diagnosed : 17 Apr 2024

: 18 Apr 2024

: 18 Apr 2024 - Wes Davis

Test Package : MOB 1 (Additional Tests: 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) **MANGUMS INC**

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

alanb@mangumsinc.com

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