WEAR CONTAMINATION FLUID CONDITION

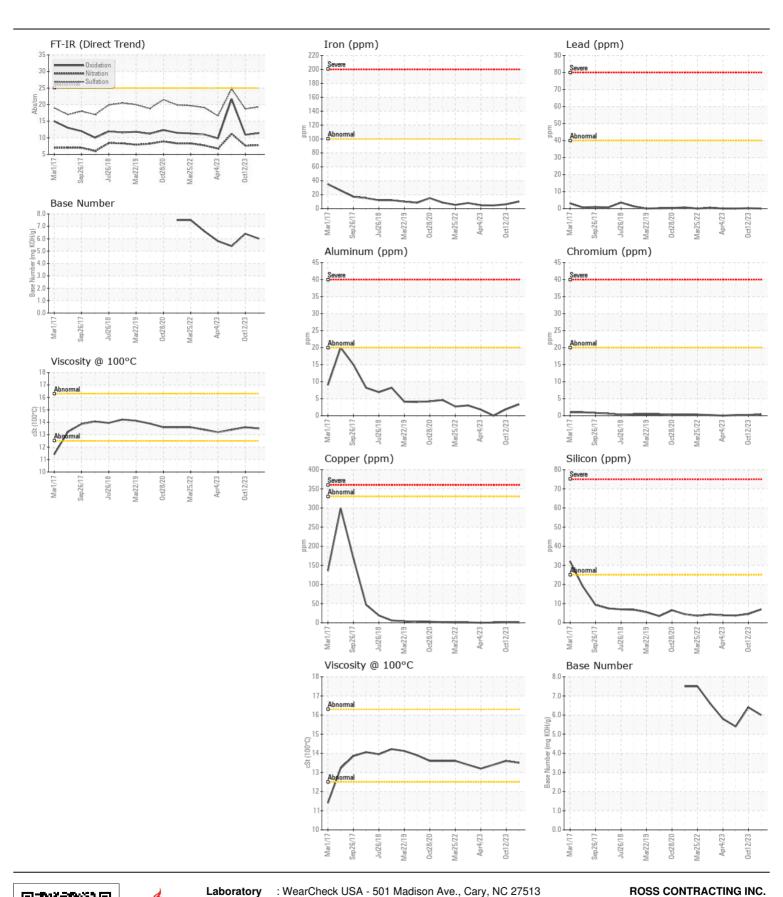
NORMAL NORMAL

Machine Id

PETERBILT 389 DT93

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		DC0035457	DC0032198	DC002975
	Sample Date		Client Info		21 Mar 2024	12 Oct 2023	13 Jun 202
	Machine Age	mls	Client Info		169547	159955	150684
	Oil Age	mls	Client Info		9592	9271	9678
	Filter Age	mls	Client Info		9592	9271	9678
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	nnm	ASTM D5185m	\100	10	6	4
WLAN	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m	77	0	<1	0
	Silver	ppm	ASTM D5185m	\3	0	0	0
	Aluminum	ppm	ASTM D5185m		3	2	0
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		1	2	<1
	Tin	ppm	ASTM D5185m		<1	0	<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		7	5	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4	5	2
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	21	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.3	1.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.6	11.2
	Sulfation Silt	Abs/.1mm	*ASTM D7415 *Visual		19.3 NONE	18.7	24.8 NONE
	Debris	scalar	*Visual	NONE	NONE	NONE NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	0	<1
The BN recult indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		2	1	4
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	3	0
	Molybdenum	ppm	ASTM D5185m		4	3	4
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m		62	41	42
	Calcium	ppm	ASTM D5185m		3276	2302	2295
	Phosphorus	ppm	ASTM D5185m		1340	851	878
	Zinc	ppm	ASTM D5185m		1487	1073	1059
	Sulfur	ppm	ASTM D5185m	0.5	5475	3937	4078
	Oxidation	Abs/.1mm	*ASTM D7414	>25	11.4	10.9	21.7
	Base Number (BN)		ASTM D2896		6.0	6.4	5.4





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DC0035457 Lab Number : 06148493 Unique Number: 10978571

Received **Tested** Diagnosed

Test Package : MOB 1 (Additional Tests: TBN)

: 16 Apr 2024

: 17 Apr 2024 - Jonathan Hester

: 15 Apr 2024

US 21771 Contact: JONATHAN KUENTZ

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1007 RISING RIDGE ROAD

MOUNT AIRY, MD

F: (301)831-5900

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)