

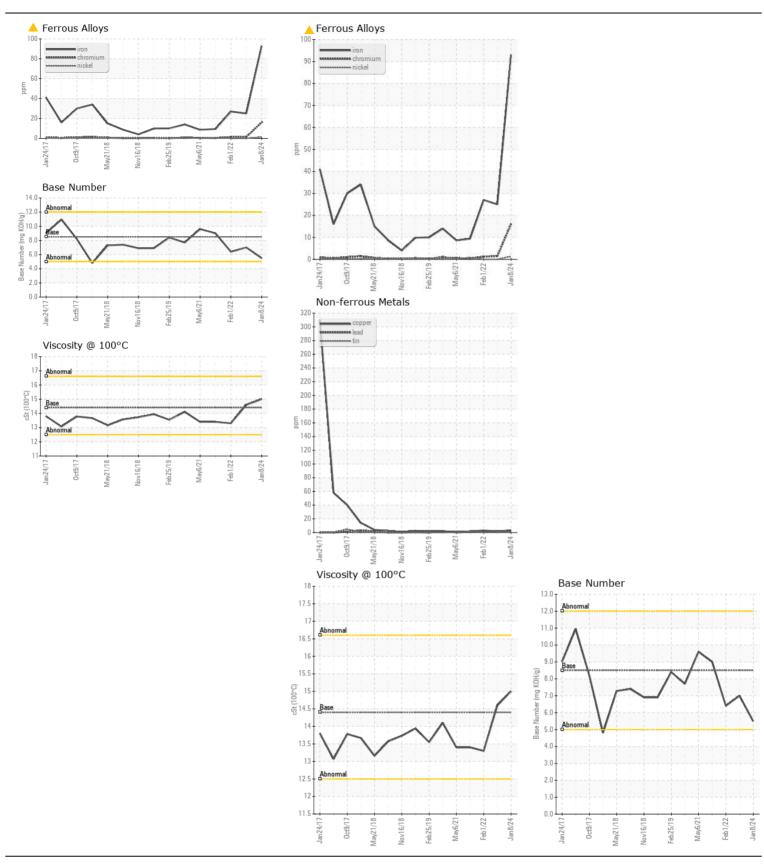
WEAR CONTAMINATION FLUID CONDITION

MARGINAL NORMAL NORMAL

Area **2H28**

PETERBILT PB348 RTK9744 (S/N 2NP3LJ0X4HM417295)

Diesel Engine DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info	2	ARI0006397	ARI0006370	ARI000527
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		08 Jan 2024	09 Mar 2023	01 Feb 202
	Machine Age	mls	Client Info		122182	122500	95714
	Oil Age	mls	Client Info		6480	30000	9305
	Filter Age	mls	Client Info		6480	30000	9305
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				MARGINAL	NORMAL	NORMAI
WEAR	Iron	ppm	ASTM D5185m	>100	△ 93	25	27
VLAII	Chromium		ASTM D5185m		▲ 16	1	1
Ring and cylinder wear is indicated.	Nickel	ppm	ASTM D5185m		1	0	0
	Titanium	ppm	ASTM D5185m	>4		0	<1
	Silver	ppm		. 0	<1	1	
		ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		7	4	5
	Lead	ppm	ASTM D5185m		3	<1	2
	Copper	ppm	ASTM D5185m		3	2	3
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m	NONE	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	6	5
SONTAMINATION	Potassium	ppm	ASTM D5185m		4	5	6
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 U.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.9	0.6	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	16.0	15.0	16.9
	Sulfation	Abs/.1mm	*ASTM D7415		30.5	25.6	30.2
	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	NORN
	Emulsified Water			>0.2	NEG	NEG	NEG
LUID CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	3	0
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		38	29	6
oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	69	62	67
	Manganese	ppm	ASTM D5185m	450	1	<1	<1
	Magnesium	ppm	ASTM D5185m		895	643	1059
	Calcium	ppm	ASTM D5185m	3000	1304	1676	1306
	Phosphorus	ppm	ASTM D5185m		1062	935	1077
	Zinc	ppm	ASTM D5185m		1367	1300	1351
	Sulfur	ppm	ASTM D5185m		3105	3349	2588
	Oxidation	Abs/.1mm	*ASTM D7414		31.2	26.4	30.6
	Base Number (BN)		ASTM D2896		5.5	7.0	6.4
	Visc @ 100°C	cSt	ASTM D445	14.4	15.0	14.6	13.3







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: ARI0006397 : 06074448 : 10856539

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 30 Jan 2024 : 01 Feb 2024 Diagnosed

Diagnostician : Jonathan Hester

Test Package : CONST (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)

INSITUFORM TECHNOLOGIES, INC

17988 EDISON AVE. CHESTERFIELD, MO US 63005

Contact: WILLIAM COWELL WCOWELL@INSITUFORM.COM

T: (317)450-3774

F: