

2H28 Machine Id PETERBILT 337 JTK9851 (S/N 2NP2HM7XXHM442982)

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DILGLE LINGINE OIL GAL ISW40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		ARI0007522	ARI0006907	ARI0005250
	Sample Date		Client Info		12 Apr 2024	09 Oct 2023	14 Jan 2022
	Machine Age	mls	Client Info		88131	86792	77328
	Oil Age	mls	Client Info		0	6794	0
	Filter Age	mls	Client Info		0	6794	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>110	17	8	15
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>4	<1	0	2
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	8	2	14
	Lead	ppm	ASTM D5185m	>45	0	0	0
	Copper	ppm	ASTM D5185m	>85	0	<1	<1
	Tin	ppm	ASTM D5185m	>4	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	4	5	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	7	1	2
	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	>3	0.4	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.3	6.2	8.3
	Sulfation	Abs/.1mm	*ASTM D7415		19.0	20.7	24.0
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
		Scalai	visuai	20.2		NLG	NLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	<1	<1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		116	393	337
	Barium	ppm	ASTM D5185m	-	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	87	81	114
	Manganese	ppm	ASTM D5185m	1=0	0	0	<1
	Magnesium	ppm	ASTM D5185m		142	402	657
	Calcium	ppm	ASTM D5185m		1963	1339	1511
	Phosphorus	ppm	ASTM D5185m		958	957	731
	Zinc	ppm	ASTM D5185m		1107	1183	907
	Sulfur	ppm	ASTM D5185m *ASTM D7414		3805	3111	2299
	Oxidation	Abs/.1mm	ASTM D/414	>20	14.9	15.8	18.8

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

Visc @ 100°C cSt

7.5

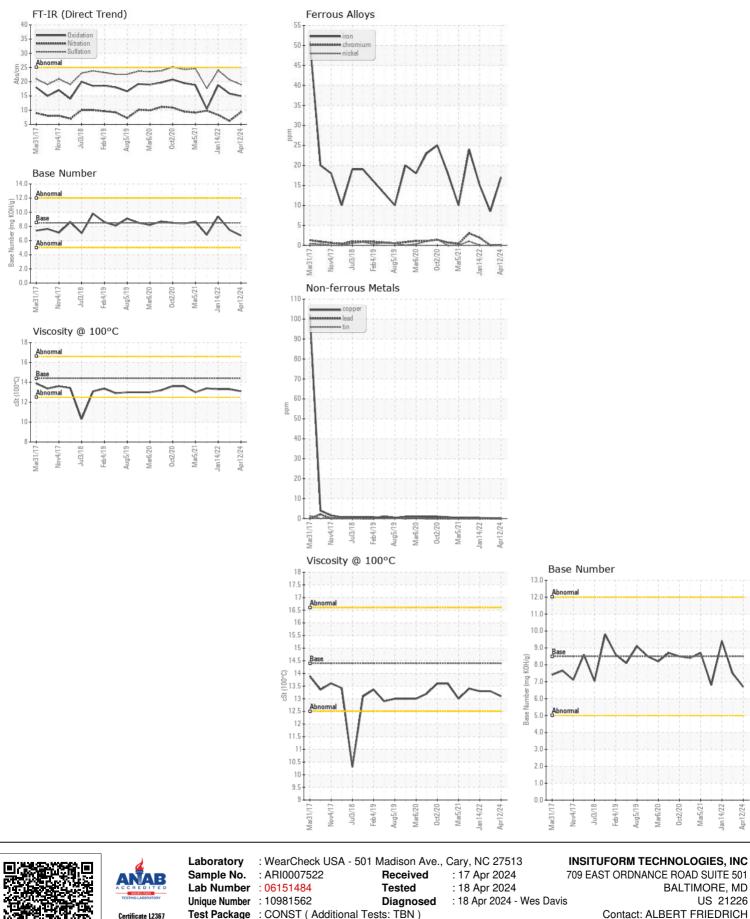
13.3

6.7

13.1

9.4

13.3



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)

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