

**Pillen Family Farms** 

**OIL ANALYSIS REPORT** 

## WEARNORMALCONTAMINATIONNORMALFLUID CONDITIONNORMAL

DIESEL ENGINE OIL SAE 40 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the	Sample Number		Client Info		SBP0006887		SBP000532
component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		30 Apr 2024	18 Mar 2024	05 Feb 202
	Machine Age	mls	Client Info		12000	350	12000
	Oil Age	mls	Client Info		12000	350	12000
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Chang
	Filter Changed Sample Status		Client Info		N/A NORMAL	N/A NORMAL	N/A NORMAL
				. 100			
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		7	7	9
	Chromium	ppm	ASTM D5185m		0	<1 0	<1
	Nickel Titanium	ppm	ASTM D5185m ASTM D5185m	>4	0	0	<1 0
	Silver	ppm ppm	ASTM D5185m	-3	0	0	0
	Aluminum	ppm	ASTM D5185m		<1	1	2
	Lead	ppm	ASTM D5185m		2	0	<1
	Copper	ppm	ASTM D5185m		0	<1	<1
	Tin	ppm	ASTM D5185m		0	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	<u></u>	2	2	4
CONTAMINATION	Potassium	ppm	ASTM D5185m		0	0	2
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		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.5	7.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	19.5	19.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
			*\/;ouol	NORML		NORML	NORM
	Appearance	scalar	*Visual		NORML		
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
		scalar				NORML NEG	NORM NEG
FLUID CONDITION	Odor	scalar	*Visual	NORML >0.2	NORML		
	Odor Emulsified Water	scalar scalar	*Visual *Visual	NORML >0.2 >216	NORML NEG	NEG	NEG
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service	Odor Emulsified Water Sodium	scalar scalar ppm	*Visual *Visual ASTM D5185m	NORML >0.2 >216 250	NORML NEG 2	NEG 2	NEG 2
	Odor Emulsified Water Sodium Boron	scalar scalar ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 >216 250 10	NORML NEG 2 0	NEG 2 <1	NEG 2 1
The BN result indicates that there is suitable alkalinity remaining in the	Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 >216 250 10 100	NORML NEG 2 0 0	NEG 2 <1 0	NEG 2 1 0 67 0
The BN result indicates that there is suitable alkalinity remaining in the	Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar ppm ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 >216 250 10 100 450	NORML NEG 2 0 0 58 0 965	NEG 2 <1 0 55 0 959	NEG 2 1 0 67 0 1054
The BN result indicates that there is suitable alkalinity remaining in the	Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 >216 250 10 100 450 3000	NORML NEG 2 0 0 58 0 965 1083	NEG 2 <1 0 55 0 959 1055	NEG 2 1 0 67 0 1054 1108
The BN result indicates that there is suitable alkalinity remaining in the	Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 250 10 100 450 3000 1150	NORML NEG 2 0 0 58 0 965 1083 978	NEG 2 <1 0 55 0 959 1055 909	NEG 2 1 0 67 0 1054 1108 1111
The BN result indicates that there is suitable alkalinity remaining in the	Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 250 10 100 450 3000 1150 1350	NORML NEG 2 0 0 58 0 965 1083 978 1264	NEG 2 <1 0 55 0 959 1055 909 1194	2 1 0 67 0 1054 1108 1111 1345
The BN result indicates that there is suitable alkalinity remaining in the	Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML >0.2 250 10 100 450 3000 1150 1350	NORML NEG 2 0 0 58 0 965 1083 978	NEG 2 <1 0 55 0 959 1055 909	NEG 2 1 0 67 0 1054 1108 1111

Oxidation

Visc @ 100°C cSt

Abs/.1mm \*ASTM D7414 >25

ASTM D445 14.4

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

15.4

8.0

13.6

15.0

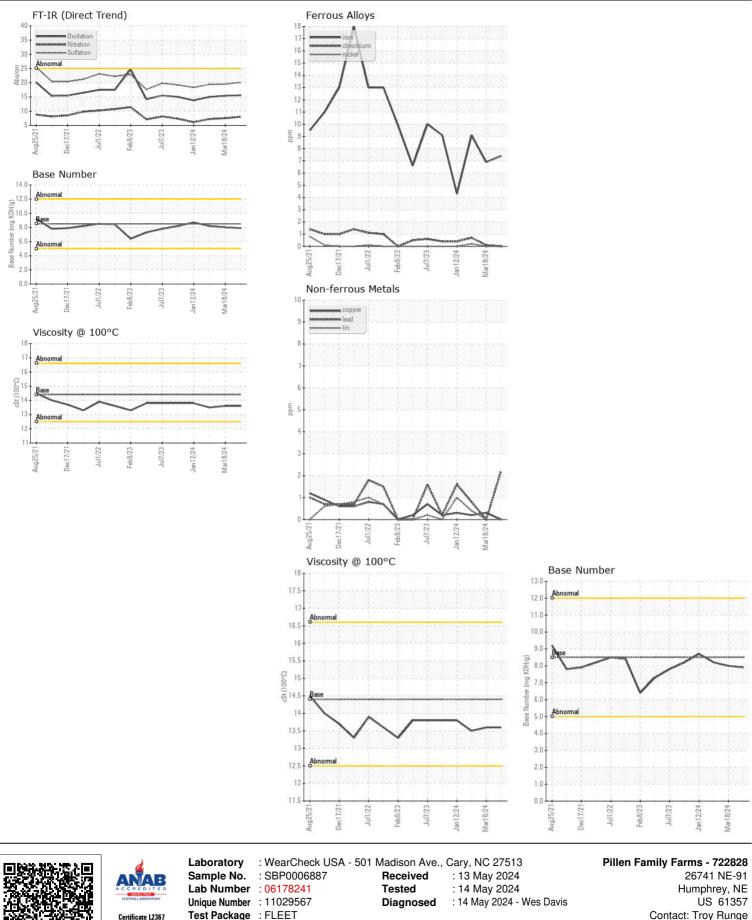
8.2

13.5

15.6

7.9

13.6



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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