

OIL ANALYSIS REPORT

Pillen Family Farms DBTK17

Component **Diesel Engine**

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

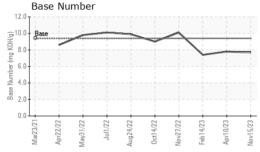
Fluid Condition

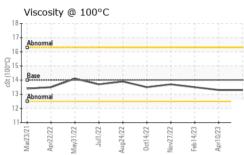
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006186	SBP0002359	SBP0002440
Sample Date		Client Info		15 Nov 2023	10 Apr 2023	14 Feb 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	1	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	2	5	8
Chromium	ppm	ASTM D5185m		- <1	<1	<1
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		2	2	2
Lead	ppm	ASTM D5185m		<1	0	0
Copper	ppm	ASTM D5185m		13	14	7
Tin	ppm	ASTM D5185m		1	<1	<1
Vanadium	ppm	ASTM D5185m	75	- <1	0	0
Gadmium	mag	ASTM D5185m		0	0	()
Cadmium	ppm	ASTM D5185m	limit/base	0 current	0 history1	0 history2
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	0	current 5	history1	history2
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	0	current 5 0	history1 1 0	history2 0 0
ADDITIVES Boron Barium Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	0	current 5 0 53	history1 1 0 62	history2 0 0 65
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	5 0 53 0	history1 1 0 62 <1	history2 0 0 0 65 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0	current 5 0 53 0 975	history1 1 0 62 <1 1024	history2 0 0 65 <1 994
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	current 5 0 53 0 975 1072	history1 1 0 62 <1 1024 1127	history2 0 0 65 <1 994 1145
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0	current 5 0 53 0 975 1072 946	history1 1 0 62 <1 1024 1127 1066	history2 0 0 65 <1 994 1145 1044
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0	current 5 0 53 0 975 1072 946 1255	history1 1 0 62 <1 1024 1127 1066 1342	history2 0 0 65 <1 994 1145 1044 1307
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0	current 5 0 53 0 975 1072 946 1255 2402	history1 1 0 62 <1 1024 1127 1066 1342 3679	history2 0 0 65 <1 994 1145 1044 1307 3436
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0	current 5 0 53 0 975 1072 946 1255 2402 current	history1 1 0 62 <1 1024 1127 1066 1342 3679 history1	history2 0 0 65 <1 994 1145 1044 1307 3436 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0	current 5 0 53 0 975 1072 946 1255 2402 current 3	history1 1 0 62 <1 1024 1127 1066 1342 3679 history1 2	history2 0 0 65 <1 994 1145 1044 1307 3436 history2 4
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0 	current 5 0 53 0 975 1072 946 1255 2402 current 3 1	history1 1 0 62 <1 1024 1127 1066 1342 3679 history1 2	history2 0 0 65 <1 994 1145 1044 1307 3436 history2 4 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0 limit/base >20 >20	current 5 0 53 0 975 1072 946 1255 2402 current 3 1	history1 1 0 62 <1 1024 1127 1066 1342 3679 history1 2 1	history2 0 0 65 <1 994 1145 1044 1307 3436 history2 4 <1 3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0 limit/base >20 limit/base	current 5 0 53 0 975 1072 946 1255 2402 current 3 1 1 current	history1 1 0 62 <1 1024 1127 1066 1342 3679 history1 2 1 0 history1	history2 0 0 65 <1 994 1145 1044 1307 3436 history2 4 <1 3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 limit/base >20 >20 limit/base >3	current 5 0 53 0 975 1072 946 1255 2402 current 3 1 current 0	history1 1 0 62 <1 1024 1127 1066 1342 3679 history1 2 1 0 history1 0.1	history2 0 0 65 <1 994 1145 1044 1307 3436 history2 4 <1 3 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0 limit/base >20 >20 limit/base >3 >20	current 5 0 53 0 975 1072 946 1255 2402 current 3 1 1 current 0 7.7	history1 1 0 62 <1 1024 1127 1066 1342 3679 history1 2 1 0 history1 0.1 6.8	history2 0 0 65 <1 994 1145 1044 1307 3436 history2 4 <1 3 history2 0.5 8.7
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0 limit/base >20 >20 limit/base >3 >20	current 5 0 53 0 975 1072 946 1255 2402 current 3 1 current 0	history1 1 0 62 <1 1024 1127 1066 1342 3679 history1 2 1 0 history1 0.1	history2 0 0 65 <1 994 1145 1044 1307 3436 history2 4 <1 3 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0 limit/base >20 >20 limit/base >3 >20	current 5 0 53 0 975 1072 946 1255 2402 current 3 1 1 current 0 7.7	history1 1 0 62 <1 1024 1127 1066 1342 3679 history1 2 1 0 history1 0.1 6.8	history2 0 0 65 <1 994 1145 1044 1307 3436 history2 4 <1 3 history2 0.5 8.7
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m METHOD *ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	0 0 0 0 0 limit/base >20 >20 limit/base >3 >20 >3	current 5 0 53 0 975 1072 946 1255 2402 current 3 1 current 0 7.7 18.5	history1 1 0 62 <1 1024 1127 1066 1342 3679 history1 2 1 0 history1 0.1 6.8 16.8	history2 0 0 65 <1 994 1145 1044 1307 3436 history2 4 <1 3 history2 0.5 8.7 25.8



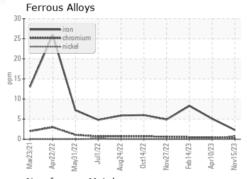
OIL ANALYSIS REPORT

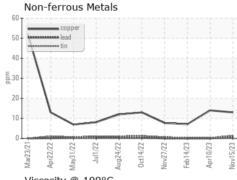


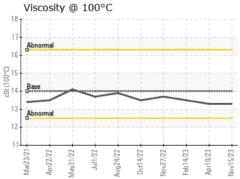


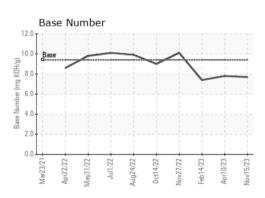
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES		metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14	13.3	13.3	13.5













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10776838 Test Package : FLEET

: 06027047

: SBP0006186

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Dec 2023 Diagnosed

: 08 Dec 2023

Diagnostician : Don Baldridge

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)

Pillen Family Farms - 722828

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Report Id: PILHUM [WUSCAR] 06027047 (Generated: 12/08/2023 14:41:51) Rev: 1