

OIL ANALYSIS REPORT

Pillen Family Farms MILTK42

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

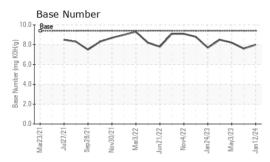
Fluid Condition

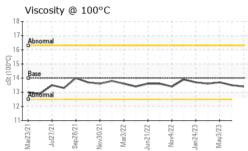
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006169	SBP0002401	SBP0002381
Sample Date		Client Info		12 Jan 2024	22 Jun 2023	03 May 2023
Machine Age	hrs	Client Info		350	0	0
Oil Age	hrs	Client Info		350	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	V	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	7 0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
						· ·
Iron	ppm	ASTM D5185m	>100	6	7	11
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	0
Lead	ppm	ASTM D5185m	>40	2	0	<1
Copper	ppm	ASTM D5185m	>330	<1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	le le · · ·	710 1111 20 100111		U	O	•
ADDITIVES	la la	method	limit/base	current	history1	history2
ADDITIVES Boron	ppm		limit/base			
		method ASTM D5185m		current	history1	history2
Boron	ppm	method ASTM D5185m	0	current 0	history1	history2
Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	0	current 0 0	history1 0 0	history2 5 0
Boron Barium Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	0	current 0 0 61	history1 0 0 55	history2 5 0 58
Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	current 0 0 61 <1	history1 0 0 55	history2 5 0 58 <1
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	current 0 0 61 <1 918	history1 0 0 55 0 897	history2 5 0 58 <1 945
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	current 0 0 61 <1 918 979	history1 0 0 55 0 897 987	history2 5 0 58 <1 945 1117
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0	current 0 0 61 <1 918 979 985	history1 0 0 55 0 897 987 923	history2 5 0 58 <1 945 1117 1014
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0	current 0 0 61 <1 918 979 985 1173	history1 0 0 55 0 897 987 923 1143	history2 5 0 58 <1 945 1117 1014 1234
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0	current 0 0 61 <1 918 979 985 1173 2811	history1 0 0 55 0 897 987 923 1143 3397	history2 5 0 58 <1 945 1117 1014 1234 3081
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 0 0 61 <1 918 979 985 1173 2811 current	history1 0 0 55 0 897 987 923 1143 3397 history1	history2 5 0 58 <1 945 1117 1014 1234 3081 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0	current 0 0 61 <1 918 979 985 1173 2811 current	history1 0 0 55 0 897 987 923 1143 3397 history1 2	history2 5 0 58 <1 945 1117 1014 1234 3081 history2
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 limit/base >25	current 0 0 61 <1 918 979 985 1173 2811 current 4	history1 0 0 55 0 897 987 923 1143 3397 history1 2 3	history2 5 0 58 <1 945 1117 1014 1234 3081 history2 3 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 0 limit/base >25 >20	current 0 0 61 <1 918 979 985 1173 2811 current 4 3 1	history1 0 0 55 0 897 987 923 1143 3397 history1 2 3 <1	history2 5 0 58 <1 945 1117 1014 1234 3081 history2 3 3 <1
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 >25 >20 limit/base	current 0 0 61 <1 918 979 985 1173 2811 current 4 3 1 current 0.3	history1 0 0 55 0 897 987 923 1143 3397 history1 2 3 <1	history2 5 0 58 <1 945 1117 1014 1234 3081 history2 3 <1 history2
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 >25 >20 limit/base	current 0 0 61 <1 918 979 985 1173 2811 current 4 3 1	history1 0 0 55 0 897 987 923 1143 3397 history1 2 3 <1	history2 5 0 58 <1 945 1117 1014 1234 3081 history2 3 <1 history2 0.3
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 >25 >20 limit/base >3 >20	current 0 0 61 <1 918 979 985 1173 2811 current 4 3 1 current 0.3 7.6	history1 0 0 55 0 897 987 923 1143 3397 history1 2 3 <1 history1 0.3 7.5	history2 5 0 58 <1 945 1117 1014 1234 3081 history2 3 <1 history2 0.3 7.0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	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 method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	0 0 0 0 0 limit/base >25 >20 limit/base >3 >20 >30 limit/base	current 0 0 61 <1 918 979 985 1173 2811 current 4 3 1 current 0.3 7.6 19.5 current	history1 0 0 55 0 897 987 923 1143 3397 history1 2 3 <1 history1 0.3 7.5 20.4 history1	history2 5 0 58 <1 945 1117 1014 1234 3081 history2 3 3 <1 history2 0.3 7.0 19.3 history2
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 D7415	0 0 0 0 0 limit/base >25 >20 limit/base >3 >20 >30	current 0 0 61 <1 918 979 985 1173 2811 current 4 3 1 current 0.3 7.6 19.5	history1 0 0 55 0 897 987 923 1143 3397 history1 2 3 <1 history1 0.3 7.5 20.4	history2 5 0 58 <1 945 1117 1014 1234 3081 history2 3 <1 history2 0.3 7.0 19.3



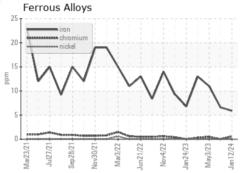
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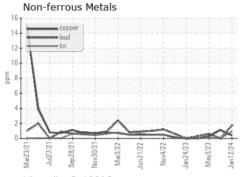


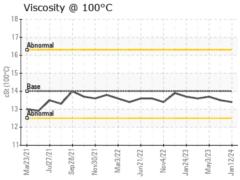


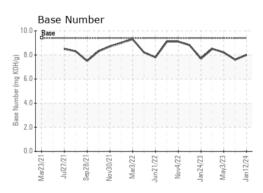
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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		method				history2
Visc @ 100°C	cSt	ASTM D445	14	13.4	13.5	13.7













Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: 06077409

: SBP0006169 : 10859500

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 01 Feb 2024 Diagnosed : 04 Feb 2024

Diagnostician : Don Baldridge

Certificate L2367 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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