

OIL ANALYSIS REPORT

Area **Pillen Family Farms** LSTK64

Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

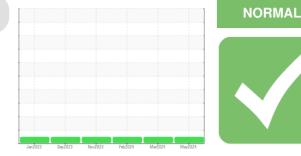
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

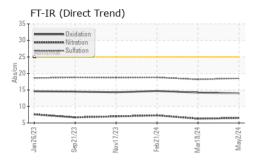


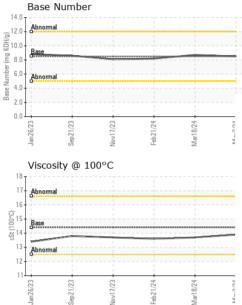
Sample Rating Trend

SAMPLE INFORM	1ATI <u>ON</u>	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006888	SBP0006826	SBP0005341
Sample Date		Client Info		02 May 2024	18 Mar 2024	21 Feb 2024
Machine Age	mls	Client Info		12000	12000	12000
Oil Age	mls	Client Info		0	0	12000
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	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	>100	6	7	14
Chromium	ppm	ASTM D5185m	>20	0	<1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	4
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	0	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	0	<1	2
Barium	ppm	ASTM D5185m	10	0	8	0
Molybdenum	ppm	ASTM D5185m	100	56	56	64
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	450	934	1059	1034
Calcium	ppm	ASTM D5185m	3000	1052	1121	1123
Phosphorus	ppm	ASTM D5185m	1150	987	1150	1145
Zinc	ppm	ASTM D5185m	1350	1228	1334	1365
Sulfur	ppm	ASTM D5185m	4250	3475	3794	3551
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	5
0 "						
Sodium	ppm	ASTM D5185m	>216	2	1	2
Potassium	ppm ppm	ASTM D5185m ASTM D5185m			1 3	2 7
				2		
Potassium		ASTM D5185m	>20	2 2	3	7
Potassium INFRA-RED	ppm	ASTM D5185m method	>20 limit/base	2 2 current	3 history1	7 history2
Potassium INFRA-RED Soot %	ppm %	ASTM D5185m method *ASTM D7844	>20 limit/base >3	2 2 current 0.3	3 history1 0.3	7 history2 0.3
Potassium INFRA-RED Soot % Nitration	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624	>20 limit/base >3 >20	2 2 current 0.3 6.5	3 history1 0.3 6.3	7 history2 0.3 7.3
Potassium INFRA-RED Soot % Nitration Sulfation	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >3 >20 >30	2 2 current 0.3 6.5 18.5	3 history1 0.3 6.3 18.2	7 history2 0.3 7.3 18.8

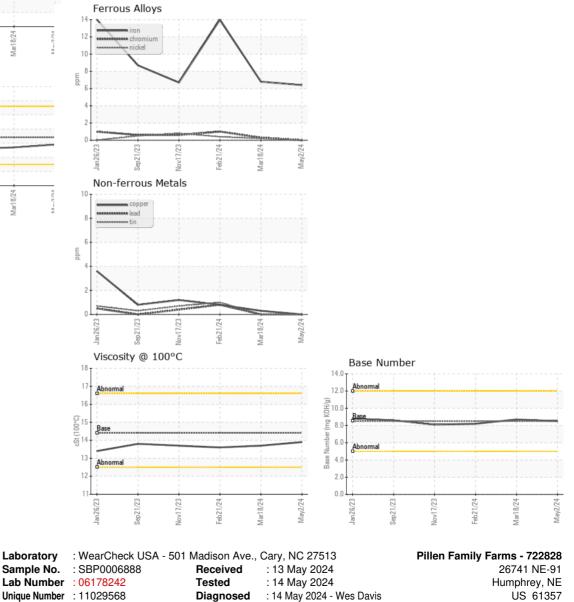


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.9	13.7	13.6
GRAPHS						





 Certificate 12367
 Test Package
 FLEET

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 troyfret

 * - 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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