

# **OIL ANALYSIS REPORT**

**Pillen Family Farms LSTK 69** 

**Diesel Engine** 

**DIESEL ENGINE OIL SAE 40 (--- GAL)** 

# Sample Rating Trend



## 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.

Metal levels are typical for a new component breaking in.

# Contamination

There is no indication of any contamination in the

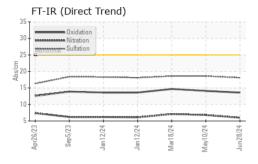
# **Fluid Condition**

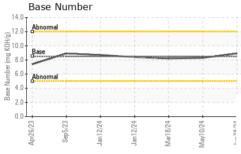
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

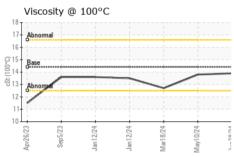
SAMPLE INFORM	AATION.		li.ee:4/le = = =		المراجعة المراجعة	٠٠٠ سوماه
	MATION	method	limit/base		history1	history2
Sample Number		Client Info		SBP0006866	SBP0006843	SBP0006825
Sample Date		Client Info		28 Jun 2024	10 May 2024	18 Mar 2024
Machine Age	mls	Client Info		12000	12000	12000
Oil Age	mls	Client Info		0	0	0
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	10	9
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	6	0	<1
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	68	63	55
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	450	1153	1113	968
Calcium	ppm	ASTM D5185m	3000	1269	1259	1066
Phosphorus	ppm	ASTM D5185m	1150	1253	1155	912
Zinc	ppm	ASTM D5185m	1350	1514	1498	1212
Sulfur	ppm	ASTM D5185m	4250	4416	4122	3381
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	3
Sodium	ppm	ASTM D5185m	>216	2	1	2
Potassium	ppm	ASTM D5185m	>20	4	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.0	6.8	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	18.6	18.6
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	14.1	14.7
Base Number (BN)	mg KOH/g	ASTM D2896		8.9	8.3	8.2

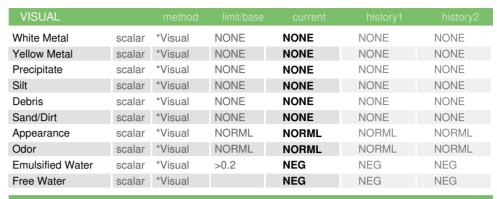


# **OIL ANALYSIS REPORT**



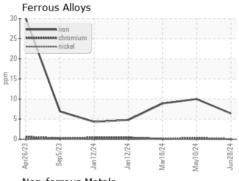


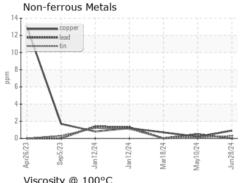


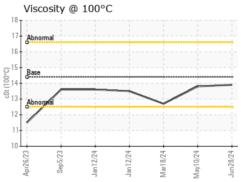


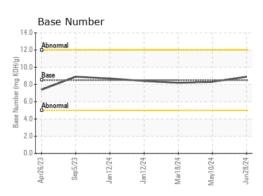
FLUID PROPER	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.9	13.8	12.7

# **GRAPHS**













Certificate 12367

Laboratory Sample No.

: SBP0006866 Lab Number : 06239773

Unique Number : 11128607

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jul 2024

> **Tested** : 18 Jul 2024 Diagnosed

: 18 Jul 2024 - Wes Davis

US 61357 Contact: Troy Runge troyfr@pillenfamilyfarms.com T: (308)390-6733

Pillen Family Farms - 722828

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)

26741 NE-91

Humphrey, NE