

OIL ANALYSIS REPORT

Sample Rating Trend

Pillen Family Farms

LSTK70

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

MacE022 April 023 3 Juni 022 3 Juli 023 April 022 0 Crit 023 Novi 022 Feb 024 May 0224 3 Juli 024



DIAGNOSIS

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

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil

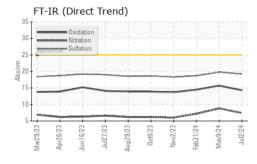
Fluid Condition

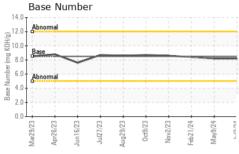
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

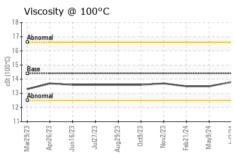
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		SBP0005400	SBP0006840	SBP0005333			
Sample Date		Client Info		02 Jul 2024	09 May 2024	21 Feb 2024			
Machine Age	mls	Client Info		12000	12000	12000			
Oil Age	mls	Client Info		0	0	12000			
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINATIO	N	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	28	21	14			
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>4	0	0	<1			
Titanium	ppm	ASTM D5185m		0	0	0			
Silver	ppm	ASTM D5185m	>3	<1	<1	0			
Aluminum	ppm	ASTM D5185m	>20	4	2	3			
Lead	ppm	ASTM D5185m	>40	0	<1	0			
Copper	ppm	ASTM D5185m	>330	2	1	<1			
Tin	ppm	ASTM D5185m	>15	<1	<1	<1			
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	2	0	2			
Barium	ppm	ASTM D5185m	10	0	0	0			
Molybdenum	ppm	ASTM D5185m	100	58	64	63			
Manganese	ppm	ASTM D5185m		0	<1	0			
Magnesium	ppm	ASTM D5185m	450	954	1114	1022			
Calcium	ppm	ASTM D5185m	3000	1065	1256	1104			
Phosphorus	ppm	ASTM D5185m	1150	1024	1185	1111			
Zinc	ppm	ASTM D5185m	1350	1270	1492	1350			
Sulfur	ppm	ASTM D5185m	4250	3510	3897	3573			
CONTAMINANTS	3	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	5	5	6			
Sodium	ppm	ASTM D5185m	>216	3	2	2			
Potassium	ppm	ASTM D5185m	>20	6	3	4			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.5	0.6	0.4			
Nitration	Abs/cm	*ASTM D7624	>20	7.4	8.8	7.2			
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.8	18.7			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	15.7	14.5			
Base Number (BN)	mg KOH/g	ASTM D2896		8.2	8.2	8.4			
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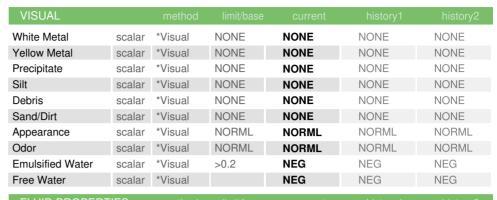


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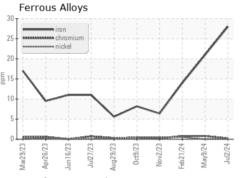


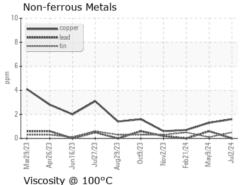


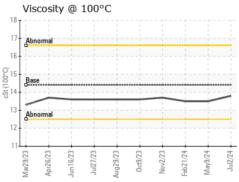


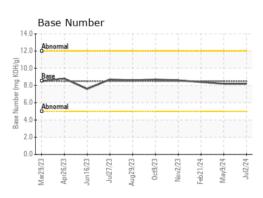


FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.5	13.5	













Certificate 12367

Laboratory Sample No. Lab Number : 06239790 Unique Number : 11128624

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0005400

Received : 17 Jul 2024 **Tested**

: 18 Jul 2024 Diagnosed : 18 Jul 2024 - Wes Davis

26741 NE-91 Humphrey, NE US 61357

Pillen Family Farms - 722828

Contact: Troy Runge troyfr@pillenfamilyfarms.com

T: (308)390-6733

Test Package : FLEET 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)

Report Id: PILHUM [WUSCAR] 06239790 (Generated: 07/18/2024 14:35:20) Rev: 1

Submitted By: JUSTIN HANSON