

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Pillen Family Farms LSTK63

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

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

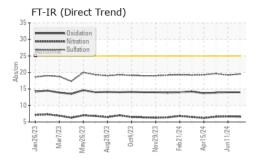
Fluid Condition

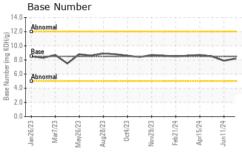
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

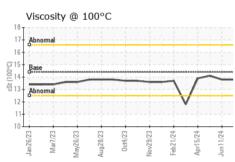
		an 2023 Mar 20	123 May2023 Aug2023 Oc	±2023 Nov2023 Feb2024 Apr2024	Jun2024	
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0005310	SBP0006856	SBP0006877
Sample Date		Client Info		10 Jul 2024	11 Jun 2024	08 May 2024
Machine Age	mls	Client Info		12000	12000	12000
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
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		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	7	10	10
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	3	4	4
Lead	ppm	ASTM D5185m	>40	0	2	<1
Copper	ppm	ASTM D5185m	>330	<1	1	0
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	3	<1	0
Barium	ppm	ASTM D5185m	10	0	1	0
Molybdenum	ppm	ASTM D5185m	100	57	62	63
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	450	958	951	1098
Calcium	ppm	ASTM D5185m	3000	1065	1092	1266
Phosphorus	ppm	ASTM D5185m	1150	1024	1106	1174
Zinc	ppm	ASTM D5185m	1350	1269	1252	1483
Sulfur	ppm	ASTM D5185m	4250	3465	3093	3997
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m	>216	2	2	1
Potassium	ppm	ASTM D5185m	>20	2	4	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	0.7
Nitration	Abs/cm	*ASTM D7624	>20	6.6	6.7	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	19.2	19.6
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	14.0	13.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.2	7.9	8.5
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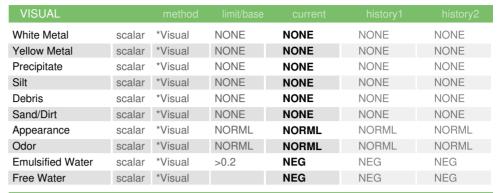


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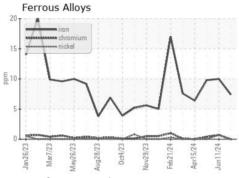


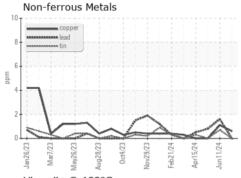


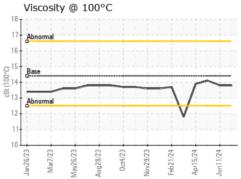


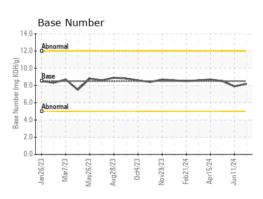


FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.8	14.1













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0005310 Lab Number : 06239780

Unique Number : 11128614

Tested

Received : 17 Jul 2024 : 18 Jul 2024

Diagnosed : 18 Jul 2024 - Wes Davis

Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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

26741 NE-91 Humphrey, NE US 61357

Contact: Troy Runge troyfr@pillenfamilyfarms.com

T: (308)390-6733

Report Id: PILHUM [WUSCAR] 06239780 (Generated: 07/18/2024 15:35:40) Rev: 1

Submitted By: JUSTIN HANSON