

OIL ANALYSIS REPORT

Sample Rating Trend





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 oil

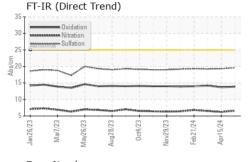
Fluid Condition

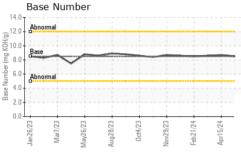
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

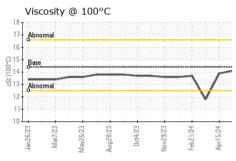
		Jan2023 Mará	2023 May2023 Aug2023	Oct2023 Nov2023 Feb2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006877	SBP0006792	SBP0006813
Sample Date		Client Info		08 May 2024	15 Apr 2024	18 Mar 2024
Machine Age	mls	Client Info		12000	12000	12000
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.4
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	10	6	8
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	3
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	0	0	<1
Tin	ppm	ASTM D5185m	>15	0	<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	0	0	0
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	63	62	55
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	450	1098	1066	964
Calcium	ppm	ASTM D5185m	3000	1266	1174	1049
Phosphorus	ppm	ASTM D5185m	1150	1174	1127	900
Zinc	ppm	ASTM D5185m	1350	1483	1405	1194
Sulfur	ppm	ASTM D5185m	4250	3997	3843	3342
CONTAMINANTS	ρρ				00.0	
OON ANIMAN IS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>25	current 4	history1	2
Silicon Sodium					history1	
Silicon Sodium	ppm	ASTM D5185m	>25	4	history1	2
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25 >216	4 1	history1 3 2	2
Silicon Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >216 >20	4 1 <1	history1 3 2 1	2 2 0
Silicon Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >216 >20 limit/base >3	4 1 <1 current	history1 3 2 1 history1	2 2 0 history2
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844	>25 >216 >20 limit/base >3 >20	4 1 <1 current 0.7	history1 3 2 1 history1 0.6	2 2 0 history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>25 >216 >20 limit/base >3 >20	4 1 <1 current 0.7 6.6	history1 3 2 1 history1 0.6 6.2	2 2 0 history2 0.6 6.5
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >216 >20 limit/base >3 >20 >30	4 1 <1 current 0.7 6.6 19.6	history1 3 2 1 history1 0.6 6.2 19.3	2 2 0 history2 0.6 6.5 19.2

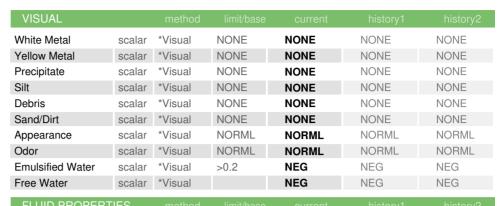


OIL ANALYSIS REPORT

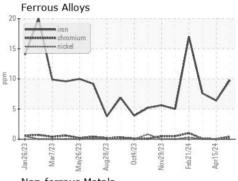


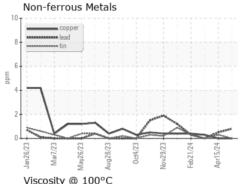


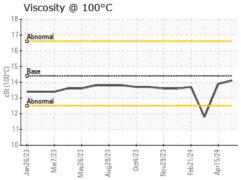


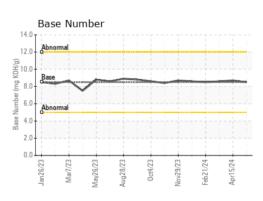


FLUID FNOFENTIES		memou			HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	14.4	14.1	13.9	11.8













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06193295 Unique Number : 11050047

: SBP0006877 Test Package : FLEET

Received : 28 May 2024 **Tested** : 30 May 2024

Diagnosed : 30 May 2024 - Wes Davis

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