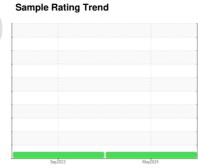


OIL ANALYSIS REPORT







Machine Id
LSTK62
Component
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.

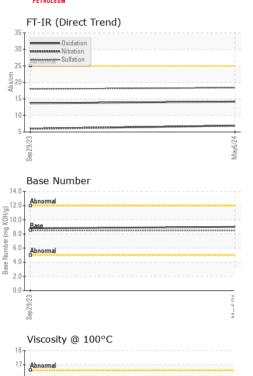
			Sep 2023	May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history?
	MATION		IIIIIIVDase	current	history1	history2
Sample Number		Client Info		SBP0006873	SBP0006255	
Sample Date	and a	Client Info		06 May 2024	29 Sep 2023	
Machine Age	mls mls	Client Info		12000	0	
Oil Age Oil Changed	IIIIS	Client Info		12000 Not Changd	N/A	
Sample Status		Ciletit IIIIO		NORMAL	NORMAL	
				-		
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	18	4	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m		3	4	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m		<1	<1	
Tin	ppm	ASTM D5185m	>15	0	0	
Vanadium	ppm	ASTM D5185m ASTM D5185m		0	0	
Cadmium	ppm			U		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	0	3	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	63	56	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	450	1091	949	
Calcium	ppm	ASTM D5185m	3000	1268	1070	
Phosphorus	ppm	ASTM D5185m	1150	1228	1024 1274	
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1350 4250	1496 4168	3130	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	
Sodium	ppm	ASTM D5185m	>216	1	2	
Potassium	ppm	ASTM D5185m	>20	3	10	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	6.9	6.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	18.0	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	13.7	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.0	8.8	
,	0					



(3°C) 15

Abnormal

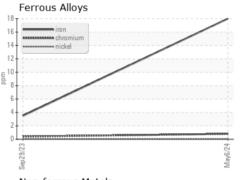
OIL ANALYSIS REPORT



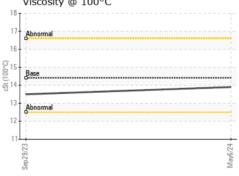
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
ELLID DDODEDT	150	l	Para Malana		for the design of	h'ataw O

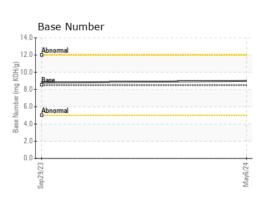
FLUID PROPER	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.9	13.5	

GRAPHS



10	copper			
8 - ***********				
6-				
4				
2				
0		www.	 estument.	
Sep29/23				Mans 74









Sample No.

Lab Number : 06193308 Unique Number : 11050060

: SBP0006873 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 May 2024 **Tested** : 30 May 2024

Diagnosed : 30 May 2024 - Wes Davis

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

Pillen Family Farms - 722828

Certificate 12367

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