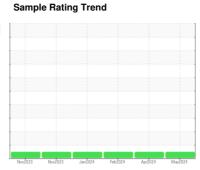


OIL ANALYSIS REPORT

Sample







Machine Id Miltk48 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

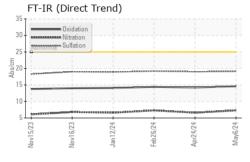
Fluid Condition

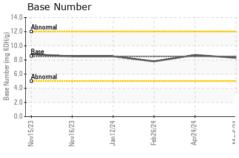
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

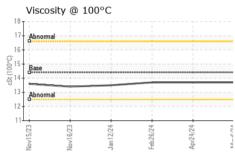
		Nov2023	Nov2023 Jan2024	Feb2024 Apr2024	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006872	SBP0006798	SBP0006822
Sample Date		Client Info		06 May 2024	24 Apr 2024	26 Feb 2024
Machine Age	hrs	Client Info		350	350	350
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	1	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	16	10	14
Chromium	ppm	ASTM D5185m	>20	<1	0	1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	3
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m		1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<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	0	0	1
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	64	56	66
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	450	1134	929	1045
Calcium	ppm	ASTM D5185m	3000	1270	1051	1109
Phosphorus	ppm	ASTM D5185m	1150	1195	982	1105
Zinc	ppm	ASTM D5185m	1350	1508	1208	1350
Sulfur	ppm	ASTM D5185m	4250	4025	3436	3458
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	3	6
Sodium	ppm	ASTM D5185m		1	2	2
Potassium	ppm	ASTM D5185m		3	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.6	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	19.0	19.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	14.2	14.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.3	8.7	7.8

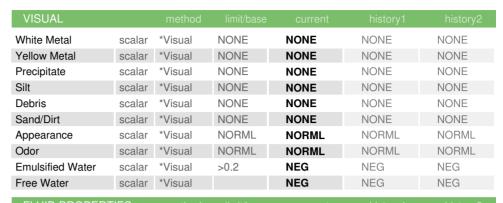


OIL ANALYSIS REPORT



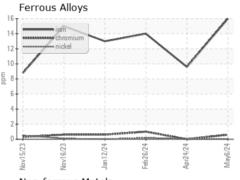


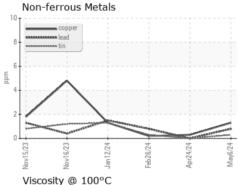


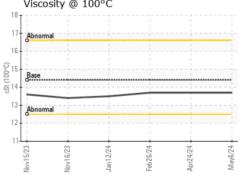


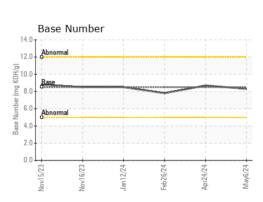
FLUID PROPER	IIES	method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.4	13.7	13.7	13.7

GRAPHS













Certificate 12367

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No.

Test Package : FLEET

: SBP0006872 Lab Number : 06193307 Unique Number : 11050059

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

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)

Pillen Family Farms - 722828

26741 NE-91

Humphrey, NE