

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id LSTK60 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		SBP0005338	SBP0006174	SBP0001498
	Sample Date		Client Info		21 Feb 2024	12 Jan 2024	29 Sep 2023
	Machine Age	mls	Client Info		12000	12000	0
	Oil Age	mls	Client Info		0	12000	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	11	8	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	4	8
	Lead	ppm	ASTM D5185m		1	1	0
	Copper	ppm	ASTM D5185m		1	2	2
	Tin	ppm	ASTM D5185m		1	2	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	>25	4	4	4
CONTAMINATION	Potassium	ppm	ASTM D5185m		5	9	22
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method			9 <1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	< 1.0 NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 0	0.4	0.4	0.3
	Nitration	Abs/cm	*ASTM D7644	>20	6.9	7.1	6.9
	Sulfation	Abs/.1mm	*ASTM D7024		19.2	19.5	19.1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
	0			040	•		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		1	0	<1
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	66	61	58
	Manganese	ppm	ASTM D5185m	450	<1	<1	<1
	Magnesium	ppm	ASTM D5185m		1042	928	992
	Calcium	ppm	ASTM D5185m		1121	1010	1070
	Phosphorus	ppm	ASTM D5185m		1140	1034	1038
	Zinc	ppm	ASTM D5185m		1341	1185	1310
	Sulfur	ppm	ASTM D5185m	4250	3446	2908	3133

Oxidation

Visc @ 100°C cSt

Abs/.1mm *ASTM D7414 >25

ASTM D445 14.4

Base Number (BN) mg KOH/g ASTM D2896 8.5

14.6

13.8

8.7

14.7

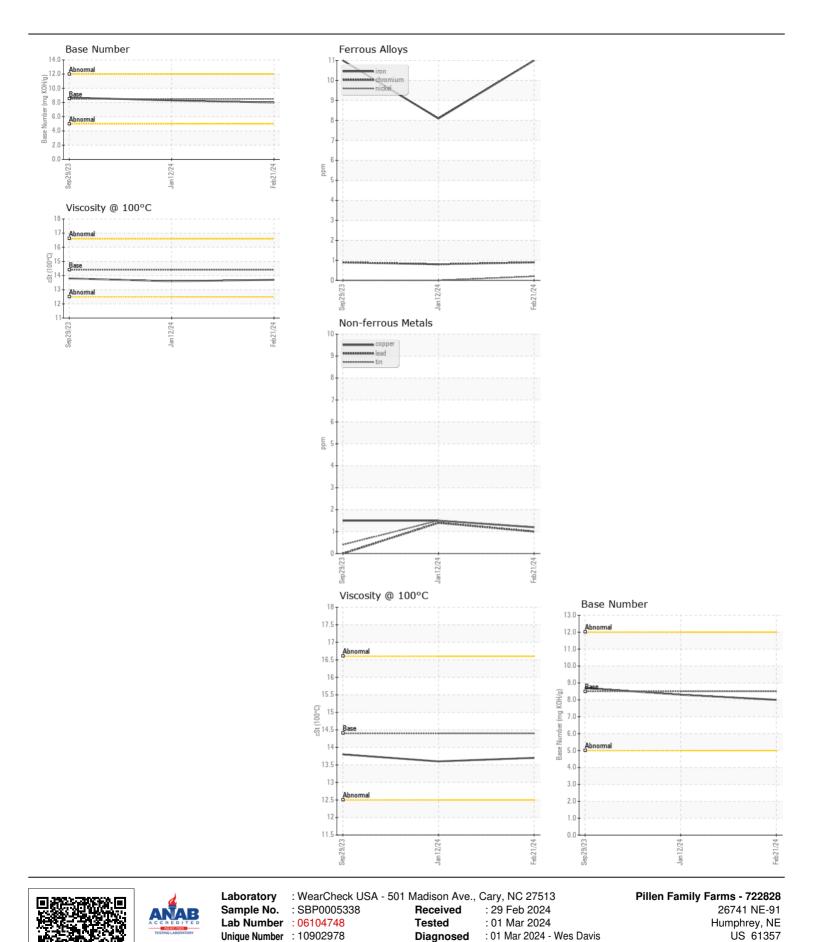
8.3

13.6

14.5

8.0

13.7



Contact: Troy Runge troyfr@pillenfamilyfarms.com 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. T: (308)390-6733 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Certificate L2367

Test Package : FLEET