

Machine Id **1461379** Component **Diesel Engine** Filuid **DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

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

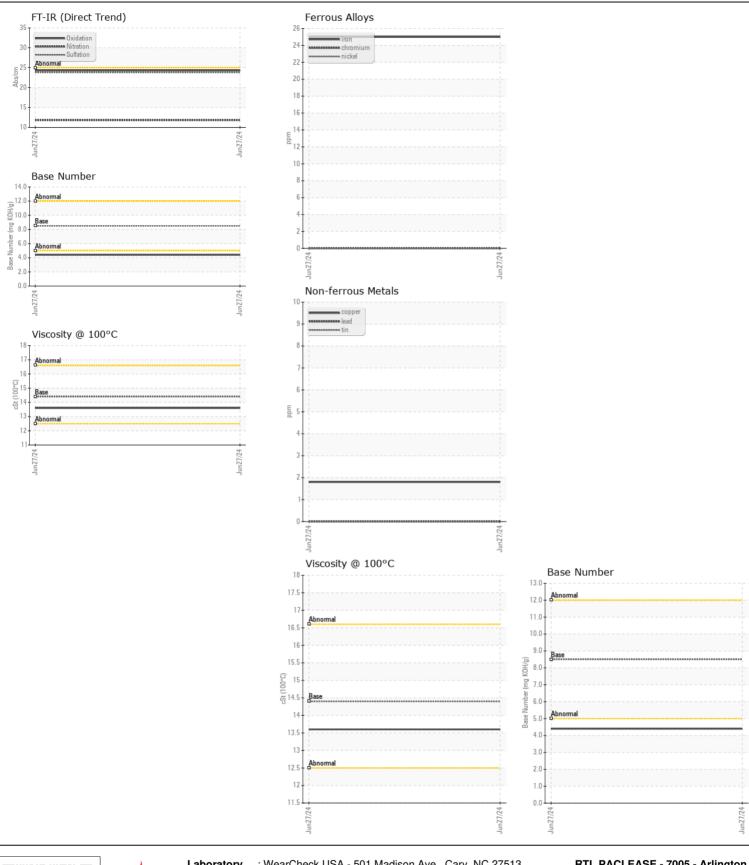
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Test		UOM	Method	Limit/Abn	Current	History1	History2
Sample Number			Client Info		RPL0016994		
Sample Date			Client Info		27 Jun 2024		
Mach	ine Age	mls	Client Info		42163		
Oil Ag	ge	mls	Client Info		0		
Filter	Age	mls	Client Info		0		
Oil Cl	nanged		Client Info		Changed		
Filter	Changed		Client Info		Changed		
Sample Status					NORMAL		
Iron		ppm	ASTM D5185m	>100	25		
Chror		ppm	ASTM D5185m	>20	0		
Nicke		ppm	ASTM D5185m	>4	0		
Titanium		ppm	ASTM D5185m		0		
Silver	•	ppm	ASTM D5185m	>3	<1		
Alumi	inum	ppm	ASTM D5185m	>20	7		
Lead		ppm	ASTM D5185m	>40	0		
Copp	er	ppm	ASTM D5185m	>330	2		
Tin		ppm	ASTM D5185m	>15	0		
Vana	dium	ppm	ASTM D5185m		0		
White	Metal	scalar	*Visual	NONE	NONE		
Yellov	w Metal	scalar	*Visual	NONE	NONE		
Silico		ppm	ASTM D5185m	>25	8		
Potas	sium	ppm	ASTM D5185m	>20	18		
Fuel			WC Method	>5	<1.0		
Wate			WC Method	>0.2	NEG		
Glyco			WC Method		NEG		
Soot		%	*ASTM D7844	>3	0.3		
Nitrat	-	Abs/cm	*ASTM D7624	>20	11.8		
Sulfat	tion	Abs/.1mm	*ASTM D7415	>30	23.8		
Silt		scalar	*Visual	NONE	NONE		
Debri		scalar	*Visual	NONE	NONE		
Sand		scalar	*Visual	NONE	NONE		
	arance	scalar	*Visual	NORML	NORML		
Odor		scalar	*Visual	NORML	NORML		
Emuls	ified Water	scalar	*Visual	>0.2	NEG		
Sodiu	m	nnm	ASTM D5185m	>158	2		
Boror		ppm ppm	ASTM D5185m	250	27		
Bariu			ASTM D5185m	10	0		
	odenum	ppm ppm	ASTM D5185m	100	85		
	anese	ppm	ASTM D5185m	100	0		
-		ppm	ASTM D5185m	450	733		
-	Magnesium Calcium		ASTM D5185m	3000	1518		
	phorus	ppm	ASTM D5185m	1150			
Zinc	priorus	ppm	ASTM D5185m	1350	878 1036		
Sulfu	r	ppm ppm	ASTM D5185m	4250	3555		
Oxida		Abs/.1mm	*ASTM D5165111 *ASTM D7414	>25	24.3		
	lumber (BN)		ASTM D7414 ASTM D2896	>25 8.5	4.4		
	@ 100°C	mg KOH/g		o.ɔ 14.4			
v150 (cSt	ASTM D445	14.4	13.6		

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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.



RTL PACLEASE - 7005 - Arlington Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 1900 E Division : RPL0016994 : 11 Jul 2024 Arlington, TX Lab Number : 06232972 Tested : 12 Jul 2024 Diagnosed Unique Number : 11116465 : 12 Jul 2024 - Wes Davis US 76011 Test Package : FLEET Contact: Ricardo Ronguillo Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ronquillor@rushenterprises.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (469)203-8172 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: Ricardo Ronquillo - PAC7005 Page 2 of 2