

#### Machine Id **781280** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 40 (--- LTR)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### WEAR

All component wear rates are normal.

# 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		RPL06215260	RPL06041950	
Sample Date		Client Info		11 Jun 2024	12 Dec 2023	
Machine Age	mls	Client Info		142261	93355	
Oil Age	mls	Client Info		48906	48860	
Filter Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Filter Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
Iron	ppm	ASTM D5185m	>100	48	65	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Litanium	ppm	ASIM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	20	70	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	4	4	
lin	ppm	ASTM D5185m	>15	0	1	
Vanadium	ppm	ASTM D5185m		<1	<1	
White Metal	scalar	*Visual	NONE	NONE	NONE	
 Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	nom	ASTM D5185m	>25	1/	21	
Potassium	ppm	ASTM D5185m	>20	/2	160	
Fuel	ppiii	WC Method	>20	-10	<10	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method	20.2	NEG	NEG	
Soot %	0/2	*ASTM D7844	~3	0.6	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	13.1	13.3	
Sulfation	Ahs/ 1mm	*ASTM D7415	>30	29.6	29.9	
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	
Sodium	ppm	ASTM D5185m	>216	3	2	
Boron	ppm	ASTM D5185m	250	30	27	
Barium	ppm	ASTM D5185m	10	<1	<1	
Molybdenum	ppm	ASTM D5185m	100	135	131	
Manganese	ppm	ASTM D5185m		1	1	
Magnesium	ppm	ASTM D5185m	450	764	787	
Calcium	ppm	ASTM D5185m	3000	1939	1757	
Phosphorus	ppm	ASTM D5185m	1150	815	825	
Zinc	ppm	ASTM D5185m	1350	1003	983	
Sulfur	ppm	ASTM D5185m	4250	3128	2697	
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.5	28.5	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.0	4.0	
Visc @ 100°C	cSt	ASTM D445	14.4	14.5	14.4	

#### FLUID CONDITION

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



**RTL PACLEASE - 7050 -Leasing Tyler** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 10791 Hwy 69 North : RPL06215260 : 20 Jun 2024 Lab Number : 06215260 Tested Tyler, TX : 21 Jun 2024 Diagnosed Unique Number : 11088124 : 21 Jun 2024 - Sean Felton US 75706 Test Package : FLEET Contact: Justin Cooper Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. CooperJ1@RushEnterprises.Com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (903)405-3000 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: Justin Cooper - PAC7050 Page 2 of 2