

Limit/Abn Current

Toet

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History1

History?

Machine Id **1461356** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 15W40 (--- QTS)**

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.

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Sample N	lumber		Client Info		RPL0017019	RPL0011203	
Sample Date			Client Info		12 Jun 2024	20 Sep 2023	
Machine Age		mls	Client Info		27634	15213	
Oil Age		mls	Client Info		0	15213	
Filter Age		mls	Client Info		0	15213	
Oil Changed			Client Info		Changed	Changed	
Filter Changed			Client Info		Changed	Changed	
Sample Status					NORMAL	NORMAL	
Iron		ppm	ASTM D5185m	>100	50	51	
Chromiu	m	ppm	ASTM D5185m	>20	2	2	
Nickel		ppm	ASTM D5185m	>4	0	<1	
Titanium	l –	ppm	ASTM D5185m		0	<1	
Silver		ppm	ASTM D5185m	>3	0	0	
Aluminu	m	ppm	ASTM D5185m	>20	10	8	
Lead		ppm	ASTM D5185m	>40	0	0	
Copper		ppm	ASTM D5185m	>330	4	20	
Tin		ppm	ASTM D5185m	>15	0	<1	
Vanadiu	m	ppm	ASTM D5185m		0	<1	
White M	etal	scalar	*Visual	NONE	NONE	NONE	
Yellow N	letal	scalar	*Visual	NONE	NONE	NONE	
Ciliaan				. 05	17	40	
Betaaaiu	m	ppin	AGTM DE105m	>20	10	42	
Fulassiu		ррш	MC Mothod	>20	12	<1.0	
Wator			WC Method	>0.2	<1.0	<1.0	
Glycol			WC Method	>0.2	NEG	NEG	
Soot %		0/		~ 2	0.2	0.2	
Nitration		/o Abc/om	*AGTM D769/	> 20	0.3	10.2	
Sulfation	1	Abs/ 1mm	*ASTM D7415	>20	22.6	23.8	
Silt		scalar	*Vieual		NONE	NONE	
Debris		scalar	*Vieual	NONE	NONE	NONE	
Sand/Di	rt	scalar	*Visual	NONE	NONE	NONE	
Anneara	nce	scalar	*Visual	NORMI	NORMI	NORMI	
Odor	100	scalar	*Visual	NORMI	NORMI	NORMI	
Emulsifier	Water	scalar	*Visual	>0.2	NEG	NEG	
		·····				NEG	
Sodium		ppm	ASTM D5185m	>158	3	5	
Boron		ppm	ASTM D5185m	250	46	189	
Barium		ppm	ASTM D5185m	10	0	7	
Molybde	num	ppm	ASTM D5185m	100	96	121	
Mangan	ese	ppm	ASTM D5185m		2	8	
Magnesi	um	ppm	ASTM D5185m	450	695	749	
Calcium		ppm	ASTM D5185m	3000	1481	1532	
Phospho	orus	ppm	ASTM D5185m	1150	593	666	
Zinc		ppm	ASTM D5185m	1350	928	889	
Sulfur		ppm	ASTM D5185m	4250	3154	2381	
Oxidatio	n	Abs/.1mm	*ASTM D7414	>25	22.9	21.3	
Base Num	ber (BN)	mg KOH/g	ASTM D2896	8.5	5.6	6.6	
Visc @ 1	100°C	cSt	ASTM D445	14.4	12.8	13.2	

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 - 7008 - Phoenix Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 回行 Sample No. : RPL0017019 Received : 27 Jun 2024 625 South 27th Ave Lab Number : 06222089 Tested : 28 Jun 2024 Phoenix, AZ Diagnosed Unique Number : 11100286 : 28 Jun 2024 - Wes Davis US 85009 Test Package : FLEET Contact: Maurice Pilotte Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. PilotteM@rushenterprises.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (602)566-5712 F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Maurice Pilotte - PAC7008 Page 2 of 2