

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id 8464823 Component Diesel Engine Fluid MOBIL 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

FLUID CONDITION

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.

The BN result indicates that there is suitable alkalinity remaining in the

oil. The condition of the oil is suitable for further service.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		RPL0018151	RPL0004109	
	Sample Date		Client Info		08 May 2024	16 Aug 2022	
	Machine Age	mls	Client Info		196551	83076	
	Oil Age	mls	Client Info		48691	8657	
	Filter Age	mls	Client Info		48691	83076	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	NORMAL	
	Iron	ppm	ASTM D5185m	>100	26	8	
	Chromium	ppm	ASTM D5185m	>20	0	0	
	Nickel	ppm	ASTM D5185m	>4	<1	0	
	Litanium	ppm	ASTM D5185m	-	0	0	
	Silver	ppm	ASTM D5185m	>3	<1	<1	
	Aluminum	ppm	ASTM D5185m	>20	7	5	
	Lead	ppm	ASTM D5185m	>40	1	<1	
	Copper	ppm	ASTM D5185m	>330	3	2	
	lin	ppm	ASTM D5185m	>15	1	<1	
	Vanadium	ppm	ASTM D5185m	NONE	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Silicon	nnm	ASTM D5185m	>25	10	4	
	Potassium	nnm	ASTM D5185m	>20	12	10	
	Fuel	ppm	WC Method	>5	- <u>1</u> 0	<10	
	Water		WC Method	>0.2	NFG	NEG	
	Glycol		WC Method	20.2	NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.6	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	11.6	8.0	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	24.5	
	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	
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	Sodium	ppm	ASTM D5185m	>118	3	0	
	Boron	ppm	ASTM D5185m		35	68	
	Barium	ppm	ASTM D5185m		0	<1	
	Molybdenum	ppm	ASTM D5185m		48	53	
	Manganese	ppm	ASTM D5185m		1	<1	
	Magnesium	ppm	ASTM D5185m		555	467	
	Calcium	ppm	ASTM D5185m		1735	1675	
	Phosphorus	ppm	ASTM D5185m		775	/91	
	Zinc	ppm	ASTM D5185m		999	941	
	Sultur	ppm	ASIM D5185m	05	2/99	2507	
	Oxidation	ADS/.1mm	ASTM D0000	>25	24.7	10.7	
	Dase Number (BN)	nig KUH/g			1.2	10.7	
	VISC @ 100 C	υOι	70 I IVI D440		14.1	10.0	



Test Package : FLEET Contact: Rudy Trevizo Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. TrevizoR@RushEnterprises.Com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (909)829-1044 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Rudy Trevizo - PAC7007 Page 2 of 2

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