

# Machine Id 14532 **Diesel Engine** DIESEL ENGINE OIL SAE 15W40 (--- QTS)

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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.

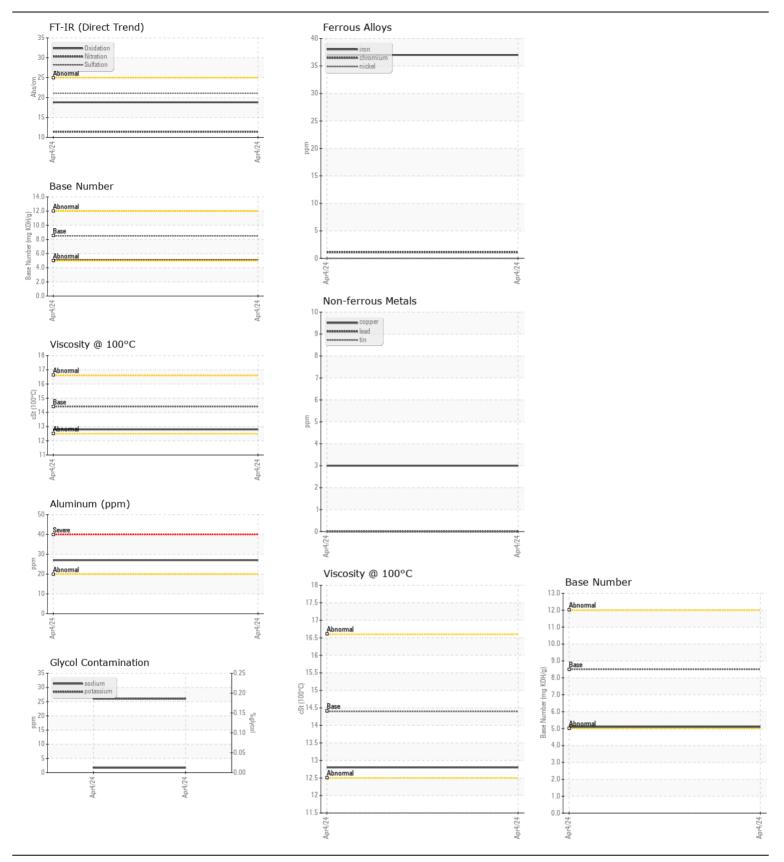
## CONTAMINATION

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		IL0035588		
Sampl	e Date		Client Info		04 Apr 2024		
	ne Age	mls	Client Info		0		
Oil Ag	-	mls	Client Info		0		
Filter A	Age	mls	Client Info		0		
Oil Ch	anged		Client Info		Changed		
Filter 0	Changed		Client Info		Changed		
Sampl	e Status				NORMAL		
Iron		ppm	ASTM D5185m	>100	37		
Chrom	nium	ppm	ASTM D5185m	>20	1		
Nickel		ppm	ASTM D5185m	>4	0		
Titaniu	ım	ppm	ASTM D5185m		0		
Silver		ppm	ASTM D5185m	>3	0		
Alumir	num	ppm	ASTM D5185m	>20	27		
Lead		ppm	ASTM D5185m	>40	0		
Coppe	er	ppm	ASTM D5185m	>330	3		
Tin		ppm	ASTM D5185m	>15	0		
Vanad	-	ppm	ASTM D5185m		0		
White	Metal	scalar	*Visual	NONE	NONE		
Yellow	Metal	scalar	*Visual	NONE	NONE		
Silicon		0000	ASTM D5185m	>25	7		
Potass		ppm	ASTM D5185m	>20	26		
Fuel	SIUTT	ppm	WC Method	>20	20 <1.0		
Water			WC Method	>0.2	<1.0 NEG		
Glycol		%	*ASTM D2982	>0.2	NEG		
Soot %	4	%	*ASTM D2302	>3	0.9		
Nitratio		Abs/cm	*ASTM D7624	>20	11.4		
Sulfati		Abs/.1mm	*ASTM D7624	>30	21.1		
Silt		scalar	*Visual	NONE	NONE		
Debris		scalar	*Visual	NONE	NONE		
Sand/I		scalar	*Visual	NONE	NONE		
Appea		scalar	*Visual	NORML	NORML		
Odor		scalar	*Visual	NORML	NORML		
Emulsif	ied Water	scalar	*Visual	>0.2	NEG		
Sodiur	n	ppm	ASTM D5185m	>158	2		
Boron		ppm	ASTM D5185m	250	70		
Barium	n	ppm	ASTM D5185m	10	0		
Molybo	Molybdenum Manganese		ASTM D5185m	100	115		
Manga			ASTM D5185m		<1		
Magne		ppm	ASTM D5185m	450	675		
Calciu		ppm	ASTM D5185m	3000	1334		
Phosp	horus	ppm	ASTM D5185m	1150	707		
Zinc		ppm	ASTM D5185m	1350	895		
Sulfur		ppm	ASTM D5185m	4250	3388		
Oxidat		Abs/.1mm	*ASTM D7414	>25	18.8		
	imber (BN)	mg KOH/g	ASTM D2896	8.5	5.1		
Visc @	∮100°C	cSt	ASTM D445	14.4	12.8	)	

#### **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.



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 RUSH TRUCK LEASING - SALT LAKE CITY IDEALEASE Sample No. Received 964 SOUTH 3800 WEST, BLDG B : IL0035588 : 24 Apr 2024 Lab Number : 06158796 SALT LAKE CITY, UT Tested : 25 Apr 2024 : 25 Apr 2024 - Sean Felton US 84104 Unique Number : 10994219 Diagnosed Test Package : FLEET ( Additional Tests: Glycol ) Contact: JAY ALEXANDER Certificate L2367 AlexanderJ1@RushEnterprises.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: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (801)977-9381

Contact/Location: JAY ALEXANDER - LAKSAL Page 2 of 2