

Machine Id **7891L** Component **Diesel Engine** Fluid **{not provided} (--- QTS)**

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.

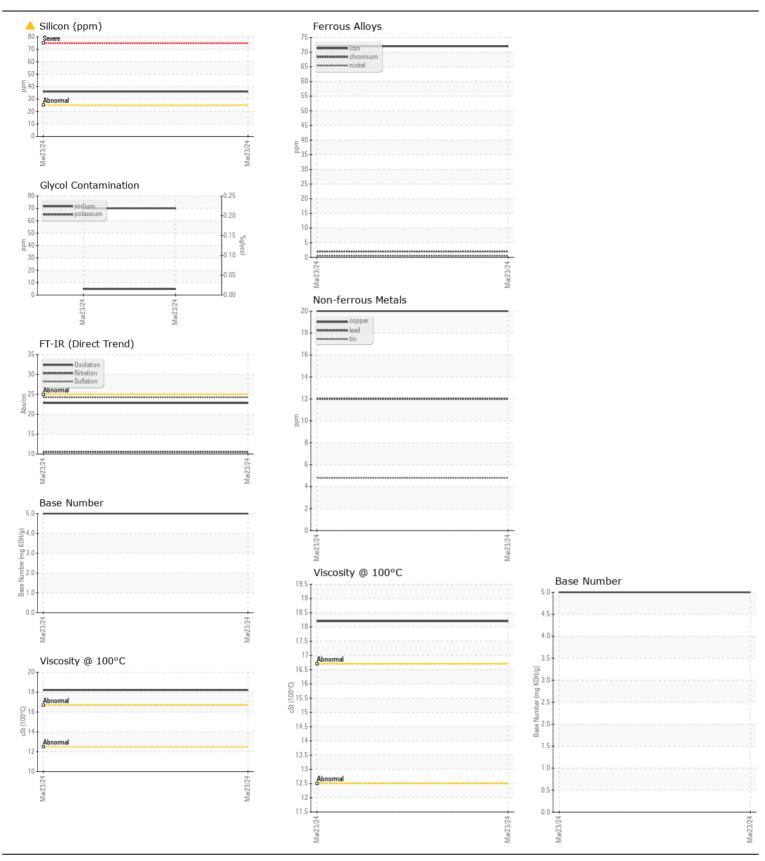
CONTAMINATION

Elevated aluminum (Al) 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. Elemental level of silicon (Si) above normal indicating ingress of seal material.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL06175093		
Sample Date		Client Info		23 Mar 2024		
Machine Age	mls	Client Info		41644		
Oil Age	mls	Client Info		41644		
Filter Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				ABNORMAL		
			400			
Iron	ppm	ASTM D5185m	>100	72		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m	0	0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	27		
Lead	ppm	ASTM D5185m	>40	12		
Copper	ppm	ASTM D5185m	>330	20		
Tin	ppm	ASTM D5185m	>15	5		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>25	<b>3</b> 6		
Potassium	ppm	ASTM D5185m	>20	70		
Fuel	le le	WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
Soot %	%	*ASTM D7844	>3	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	10.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Sodium	ppm	ASTM D5185m		5		
Boron	ppm	ASTM D5185m		30		
Barium	ppm	ASTM D5185m		5		
Molybdenum	ppm	ASTM D5185m		62		
Manganese	ppm	ASTM D5185m		5		
Magnesium	ppm	ASTM D5185m		526		
Calcium	ppm	ASTM D5185m		1709		
Phosphorus	ppm	ASTM D5185m		977		
Zinc	ppm	ASTM D5185m		1218		
Sulfur	ppm	ASTM D5185m	0.5	3042		
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.8		
Base Number (BN)	mg KOH/g	ASTM D2896		5.0		
Visc @ 100°C	cSt	ASTM D445		18.2		

## 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.



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **RUSH TRUCK CENTER - CHICAGO IDEALEASE** 回品 Sample No. Received 4655 SOUTH CENTRAL AVENUE : IL06175093 : 10 May 2024 Lab Number : 06175093 Tested : 10 May 2024 CHICAGO, IL : 13 May 2024 - Don Baldridge Unique Number : 11021146 US 60638 Diagnosed Test Package : FLEET Contact: MIKE LINLEY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. linleym@rushtruckcenters.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (708)496-7500 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (708)496-8818

Contact/Location: MIKE LINLEY - IDECHIL Page 2 of 2