

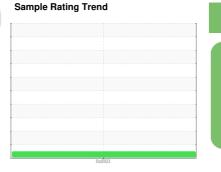
**OIL ANALYSIS REPORT** 

Machine Id 7013M

**Diesel Engine** 

Component

**DIESEL ENGINE OIL SAE 40 (--- GAL)** 





## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Please specify the component make and model with your next sample.

### Wear

Metal levels are typical for a new component breaking in.

### 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. There is no indication of any contamination in the oil.

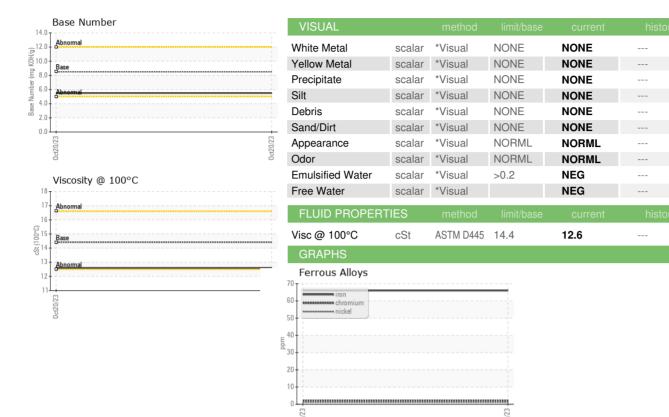
### **Fluid Condition**

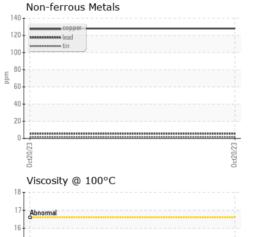
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

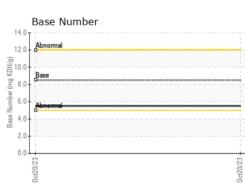
				Oct2023			
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		IL0032408			
Sample Date		Client Info		20 Oct 2023			
Machine Age	mls	Client Info		45752			
Oil Age	mls	Client Info		0			
Oil Changed		Client Info		Changed			
Sample Status				NORMAL			
CONTAMINATIO	N	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0			
Water		WC Method	>0.2	NEG			
Glycol		WC Method		NEG			
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	66			
Chromium	ppm	ASTM D5185m	>20	2			
Nickel	ppm	ASTM D5185m	>4	1			
Titanium	ppm	ASTM D5185m		<1			
Silver	ppm	ASTM D5185m	>3	0			
Aluminum	ppm	ASTM D5185m	>20	27			
Lead	ppm	ASTM D5185m	>40	6			
Copper	ppm	ASTM D5185m	>330	128			
Tin	ppm	ASTM D5185m	>15	2			
Vanadium	ppm	ASTM D5185m		<1			
Cadmium	ppm	ASTM D5185m		0			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	250	22			
Barium	ppm	ASTM D5185m	10	0			
Molybdenum	ppm	ASTM D5185m	100	60			
Manganese	ppm	ASTM D5185m		4			
Magnesium	ppm	ASTM D5185m	450	458			
Calcium	ppm	ASTM D5185m	3000	1805			
Phosphorus	ppm	ASTM D5185m	1150	956			
Zinc	ppm	ASTM D5185m	1350	1234			
Sulfur	ppm	ASTM D5185m	4250	2362			
CONTAMINANTS	5	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	13			
Sodium	ppm	ASTM D5185m	>216	4			
Potassium	ppm	ASTM D5185m	>20	88			
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	2.3			
Nitration	Abs/cm	*ASTM D7624	>20	11.9			
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.2			
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.4			
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.5			



# **OIL ANALYSIS REPORT**











Certificate L2367

Laboratory Sample No. Lab Number Unique Number Test Package : FLEET

: IL0032408 : 06026003 : 10775794

cSt (100°C)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06 Dec 2023 Received Diagnosed

: 07 Dec 2023 : Wes Davis Diagnostician

**RUSH TRUCK CENTER - CHICAGO IDEALEASE** 4655 SOUTH CENTRAL AVENUE

CHICAGO, IL US 60638

Contact: MIKE LINLEY linleym@rushtruckcenters.com

T: (708)496-7500 F: (708)496-8818

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

Report Id: IDECHIIL [WUSCAR] 06026003 (Generated: 12/07/2023 05:42:06) Rev: 1

Contact/Location: MIKE LINLEY - IDECHIIL