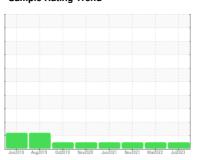


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 161943

Component **Diesel Engine**

DIESEL ENGINE OIL SAE 15W40 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

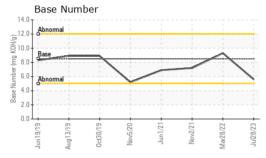
Fluid Condition

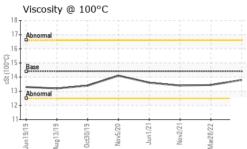
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Juni2019 Augi2019 Oci2019 Novi2020 Juni2021 Novi2021 Mari2022 Juli2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL05931891	IL05515245	IL05404414
Sample Date		Client Info		28 Jul 2023	28 Mar 2022	02 Nov 2021
Machine Age	hrs	Client Info		11332	7871	7055
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	39	22	24
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	11	8	6
Lead	ppm	ASTM D5185m	>40	7	3	5
Copper	ppm	ASTM D5185m	>330	2	1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	2	2	6
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	62	61	58
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	1003	907	874
Calcium	ppm	ASTM D5185m	3000	1212	1103	1212
Phosphorus	ppm	ASTM D5185m	1150	1043	1041	988
Zinc	ppm	ASTM D5185m	1350	1261	1281	1173
Sulfur	ppm	ASTM D5185m	4250	3146	2562	2489
CONTAMINANTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	4	4
Sodium	ppm	ASTM D5185m	>158	2	<1	0
Potassium	ppm	ASTM D5185m	>20	0	7	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	13.5	12.4	11.8
Sulfation	Abs/.1mm	*ASTM D7415		27.6	23.7	25.3
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.3	19.7	21.8
Base Number (BN)	mg KOH/g	ASTM D2896		5.6	9.3	7.2
(214)				U.U		



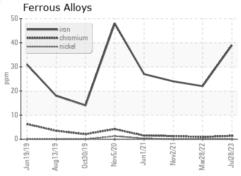
OIL ANALYSIS REPORT

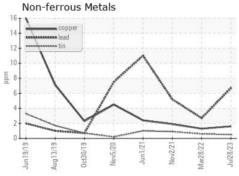


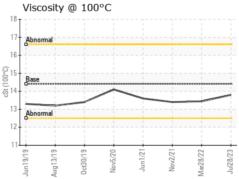


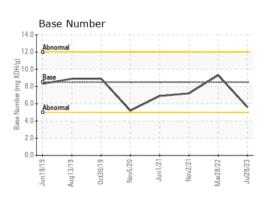
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.44	13.4













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10617162 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : IL05931891 : 05931891

Received Diagnosed

: 23 Aug 2023 : 24 Aug 2023 Diagnostician : Doug Bogart RUSH TRUCK LEASING - CINCINNATI IDEALEASE

11777 HIGHWAY DRIVE CINCINNATI, OH US 45241

Contact: ROBERT BAIER baierr@rushenterprises.com

T: (513)657-7901

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: IDECIN [WUSCAR] 05931891 (Generated: 08/24/2023 20:33:41) Rev: 1

Contact/Location: ROBERT BAIER - IDECIN

F: (513)733-0537