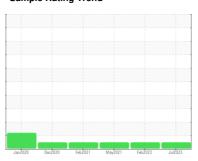


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 142016

Component **Diesel Engine**

DIESEL ENGINE OIL SAE 40 (--- 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

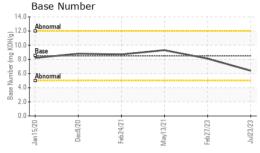
Fluid Condition

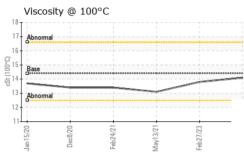
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Jan 2020	Dec2020 Feb2021	May2021 Feb2023	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL05931886	IL05811302	IL05275345
Sample Date		Client Info		23 Jul 2023	27 Feb 2023	13 May 2021
Machine Age	hrs	Client Info		4333	3691	1733
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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	46	37	24
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	7	6	8
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	1	2
Tin	ppm	ASTM D5185m	>15	0	<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	6	8	12
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	63	65	64
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	989	871	959
Calcium	ppm	ASTM D5185m	3000	1348	1223	1141
Phosphorus	ppm	ASTM D5185m	1150	1088	1058	1014
Zinc	ppm	ASTM D5185m	1350	1315	1301	1270
Sulfur	ppm	ASTM D5185m	4250	3282	3216	2579
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		7	7	5 2
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m		0	2	13
	ppm					
INFRA-RED	0/	method	limit/base		history1	history2
Soot %	% Ala a /a aa	*ASTM D7844	>3	0.9	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	14.7	11.9	11.8
Sulfation	Abs/.1mm	*ASTM D7415		26.9	22.9	23.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.9	20.3	21.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.4	8.1	9.3



OIL ANALYSIS REPORT

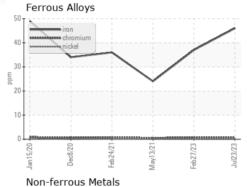


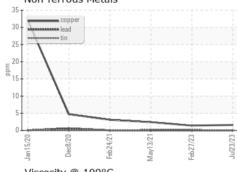


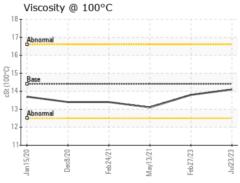
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

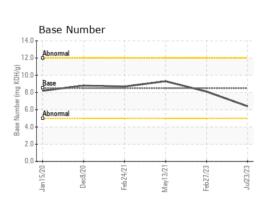
FLUID PROPER	IIIES	method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.4	14.1	13.8	13.1

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10617157

: IL05931886 : 05931886

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Aug 2023 Diagnosed : 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 F: (513)733-0537

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] 05931886 (Generated: 08/24/2023 20:29:51) Rev: 1

Contact/Location: ROBERT BAIER - IDECIN