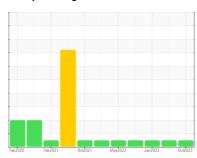


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 4481L Component Diesel Engli

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

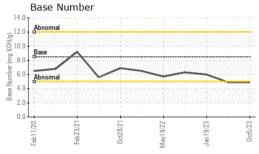
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

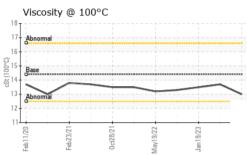
		Feb 2020	Feb2021 Oct2021	May2022 Jan2023	Oct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL0032500	IL0028930	IL0028974
Sample Date		Client Info		05 Oct 2023	24 Apr 2023	19 Jan 2023
Machine Age	mls	Client Info		226492	213011	195421
Oil Age	mls	Client Info		15000	10000	15000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	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	41	41	33
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	4	6	4
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	2	2
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	0	3	4
Barium	ppm	ASTM D5185m	10	4	0	4
Molybdenum	ppm	ASTM D5185m	100	66	66	63
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	946	1056	952
Calcium	ppm	ASTM D5185m	3000	1113	1130	1111
Phosphorus	ppm	ASTM D5185m	1150	904	1040	907
Zinc	ppm	ASTM D5185m	1350	1256	1375	1280
Sulfur	ppm	ASTM D5185m	4250	3275	3724	3255
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	5
Sodium	ppm	ASTM D5185m	>158	0	2	2
Potassium	ppm	ASTM D5185m	>20	5	6	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	0.7
Nitration	A I /	*ASTM D7624	>20	12.8	12.2	12.7
Milialion	Abs/cm					
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.7	23.8	25.6
	Abs/.1mm		>30 limit/base		23.8 history1	25.6 history2
Sulfation	Abs/.1mm	*ASTM D7415		28.7		
Sulfation FLUID DEGRADA	Abs/.1mm	*ASTM D7415 method	limit/base	28.7 current	history1	history2

Contact/Location: MIKE LINLEY - IDECHIIL



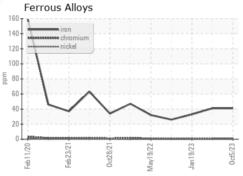
OIL ANALYSIS REPORT

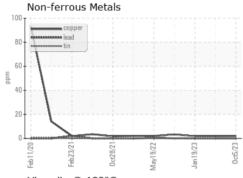


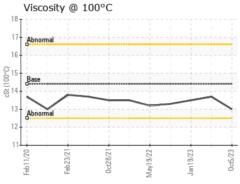


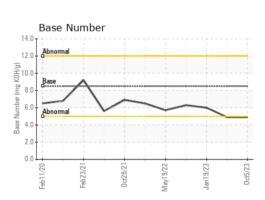
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	ilmit/base		nistory i	nistory2	
Visc @ 100°C	cSt	ASTM D445	14.4	13.0	13.7	13.5	













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10726040 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : IL0032500 : 05997680

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received

Diagnosed Diagnostician : Don Baldridge

: 03 Nov 2023 : 06 Nov 2023 **RUSH TRUCK CENTER - CHICAGO IDEALEASE** 4655 SOUTH CENTRAL AVENUE

CHICAGO, IL US 60638

Contact: MIKE LINLEY

linleym@rushtruckcenters.com T: (708)496-7500

* - 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)

F: (708)496-8818 Contact/Location: MIKE LINLEY - IDECHIIL