

PROBLEM SUMMARY

Sample Rating Trend

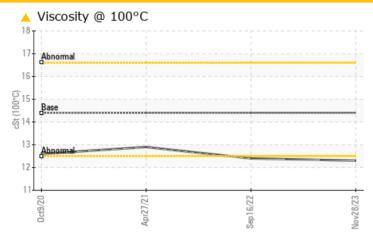
VISCOSITY

Machine Id 4529L

Component **Diesel Engine**

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ATTENTION	ATTENTION	NORMAL		
Visc @ 100°C	cSt	ASTM D445	14.4	12.3	<u>▲</u> 12.4	12.9		

Customer Id: IDECHIIL Sample No.: IL06026241 Lab Number: 06026241 Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

16 Sep 2022 Diag: Jonathan Hester

VISCOSITY



The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



27 Apr 2021 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



09 Oct 2020 Diag: Doug Bogart

DIKI



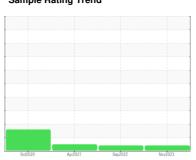
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id **4529L** Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

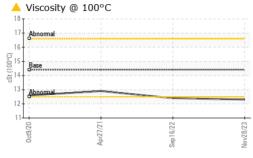
Fluid Condition

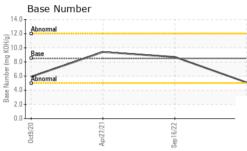
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

	OctODEO ApriloZ1 Smp2022 NoviD023					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		IL06026241 28 Nov 2023	IL0022275 16 Sep 2022	IL0017596 27 Apr 2021
Machine Age	mls	Client Info		50987	39702	18476
Oil Age Oil Changed	mls	Client Info		11285 N/A	0 Changed	0 N/A
Sample Status		Chefit iiilo		ATTENTION	ATTENTION	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	1.7	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	28	22	22
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm		>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	6	9	12
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m		2	1	8
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		-	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	5	30	48
Barium	ppm	ASTM D5185m	10	2	2	0
Molybdenum	ppm	ASTM D5185m	100	56	39	39 1
Manganese	ppm	ASTM D5185m ASTM D5185m	450	0 822	<1 474	466
Magnesium Calcium	ppm	ASTM D5185m	3000	1110	1532	1523
Phosphorus	ppm	ASTM D5185m	1150	777	704	715
Zinc	ppm		1350	1066	870	864
Sulfur	ppm	ASTM D5185m		3014	2611	2003
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	8	9
Sodium	ppm	ASTM D5185m	>158	0	<1	4
Potassium	ppm	ASTM D5185m	>20	6	9	28
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	11.4	11.5	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	24.7	25.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.8	27.1	24.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.1	8.7	9.4



OIL ANALYSIS REPORT

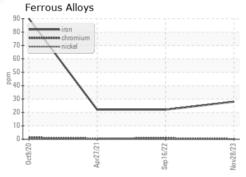


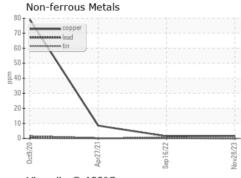


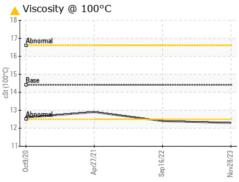
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
			7 0.2			

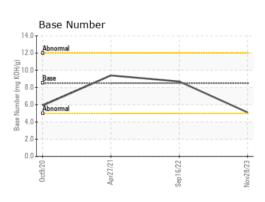
FLUID PROPER	TIES	method	limit/base	current	history1	history
Visc @ 100°C	cSt	ASTM D445	14.4	12.3	▲ 12.4	12.9

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10776032 Test Package : FLEET

: IL06026241 : 06026241

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Dec 2023 Diagnosed : 07 Dec 2023

Diagnostician : Don Baldridge

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