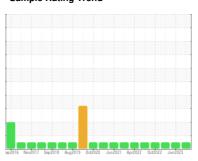


OIL ANALYSIS REPORT

Sample Rating Trend







INTERNATIONAL 103524

Component

Diesel Engine

SHELL ROTELLA T 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

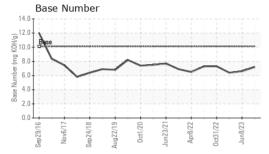
Fluid Condition

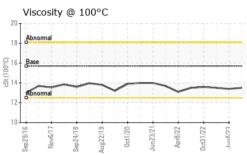
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

992016 Nov2017 S992018 Aug2019 Oct020 Jun2021 Apr2022 Oct022 Jun2023							
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		IL0032718	IL0027516	IL0027417	
Sample Date		Client Info		20 Sep 2023	08 Jun 2023	14 Feb 2023	
Machine Age	mls	Client Info		305819	292071	277208	
Oil Age	mls	Client Info		13748	14863	13724	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	V	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>130	16	15	13	
Chromium	ppm	ASTM D5185m	>10	<1	<1	0	
Nickel	ppm	ASTM D5185m	>4	0	<1	0	
Titanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	4	5	
Lead	ppm	ASTM D5185m	>20	<1	<1	0	
Copper	ppm	ASTM D5185m	>125	<1	2	0	
Tin	ppm	ASTM D5185m	>4	<1	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	316	66	77	59	
Barium	ppm	ASTM D5185m	0.0	2	0	0	
Molybdenum	ppm	ASTM D5185m	1.2	29	52	73	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m	24	250	156	37	
Calcium	ppm	ASTM D5185m	2292	1854	2027	2092	
Phosphorus	ppm	ASTM D5185m	1064	991	974	909	
Zinc	ppm	ASTM D5185m	1160	1203	1203	1142	
Sulfur	ppm	ASTM D5185m	4996	3304	3621	3798	
CONTAMINANTS	;	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	7	7	
Sodium	ppm	ASTM D5185m		2	<1	<1	
Potassium	ppm	ASTM D5185m	>20	6	5	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.5	0.5	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	9.0	9.3	10.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	21.1	19.8	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	18.0	15.6	
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	7.2	6.6	6.4	
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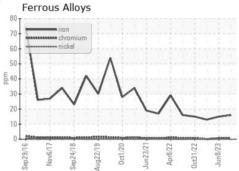
OIL ANALYSIS REPORT

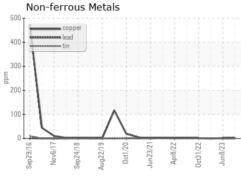


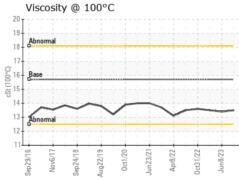


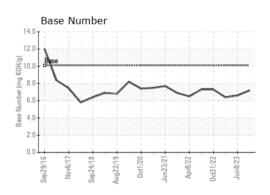
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	15.7	13.5	13.4	13.5	













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : FLEET

: IL0032718 : 05963357 : 10669908

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Sep 2023 : 29 Sep 2023 Diagnosed Diagnostician : Wes Davis

IDEALEASE OF NORTHWEST WI

611 HANSEN ROAD GREEN BAY, WI US 54304 Contact: GARY KOLTZ

gkoltz@pcitrucks.com T: (920)499-6200

* - 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: (920)499-5332