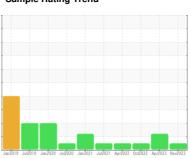


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



INTERNATIONAL 108701

Component

Diocol Engine

Diesel Engine

SHELL ROTELLA T 15W40 (--- GAL)

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

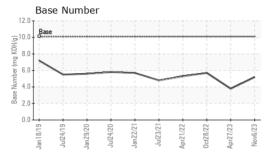
Fluid Condition

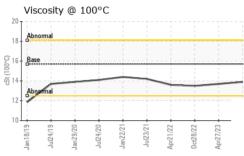
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

. Jan2019 - Jul2019 - Jan2020 - Jul2020 - Jan2021 - Jul2021 - Apr2022 - Oct2022 - Apr2023 - Nov2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL0032772	IL0027558	IL0027729
Sample Date		Client Info		06 Nov 2023	27 Apr 2023	28 Oct 2022
Machine Age	mls	Client Info		335321	301184	268272
Oil Age	mls	Client Info		34137	32912	33231
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATION	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	>90	17	20	21
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	5	7
Lead	ppm	ASTM D5185m	>40	5	3	7
Copper	ppm	ASTM D5185m	>330	0	0	2
Tin	ppm	ASTM D5185m	>15	<1	0	<1
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	32	35	16
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	1.2	29	83	82
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	24	162	55	168
Calcium	ppm	ASTM D5185m	2292	2034	2260	2052
Phosphorus	ppm	ASTM D5185m	1064	969	1019	984
Zinc	ppm	ASTM D5185m	1160	1252	1323	1226
Sulfur	ppm	ASTM D5185m	4996	3220	4056	3687
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	5
Sodium	ppm	ASTM D5185m		1	2	2
Potassium	ppm	ASTM D5185m	>20	13	8	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.6	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	11.1	10.1	12.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.5	23.0	26.5
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.6	19.3	21.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.2	▲ 3.8	5.7



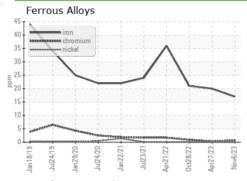
OIL ANALYSIS REPORT

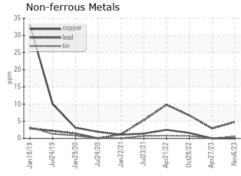


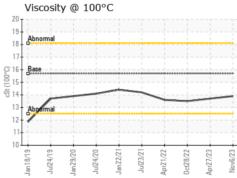


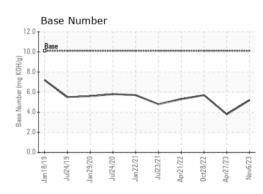
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERI	IES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.7	13.9	13.7	13.5













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10740538 Test Package : FLEET

: IL0032772 : 06006776

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed Diagnostician : Don Baldridge

: 14 Nov 2023 : 16 Nov 2023

611 HANSEN ROAD GREEN BAY, WI US 54304 Contact: GARY KOLTZ gkoltz@pcitrucks.com

IDEALEASE OF NORTHWEST WI

T: (920)499-6200 F: (920)499-5332

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)