

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



113 (S/N 3HSPAAPR8PN664805)

Diesel Engine

SHELL ROTELLA T4 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

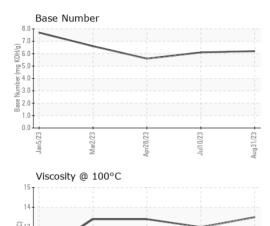
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Jan2023	Walzuza	Apr2023 Jul2023	Aug2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0089623	PCA0097120	PCA0097108
Sample Date		Client Info		31 Aug 2023	10 Jul 2023	28 Apr 2023
Machine Age	mls	Client Info		99440	79135	58791
Oil Age	mls	Client Info		20305	20344	19945
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method		<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		10	10	12
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m		1	1	2
Lead	ppm	ASTM D5185m		<1	0	<1
Copper	ppm	ASTM D5185m		<1	<1	2
Tin	ppm	ASTM D5185m		<1	0	1
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		77	73	90
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		16	10	18
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		53	84	140
Calcium	ppm	ASTM D5185m		2315	2207	2104
Phosphorus	ppm	ASTM D5185m		983	928	997
Zinc	ppm	ASTM D5185m		1277	1212	1211
Sulfur	ppm	ASTM D5185m		4200	3980	3831
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		5	5	6
Sodium	ppm	ASTM D5185m		3	<1	1
Potassium	ppm	ASTM D5185m		8	2	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624		8.4	8.4	7.8
Sulfation	Abs/.1mm	*ASTM D7415		20.4	20.9	19.5
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		16.1	16.3	16.4
Base Number (BN)	mg KOH/g	ASTM D2896		6.2	6.1	5.6

Contact/Location: DAVID VOUGHT - VULFLO



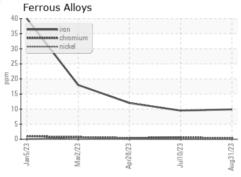
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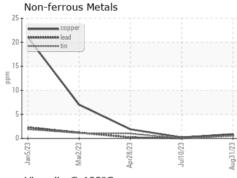


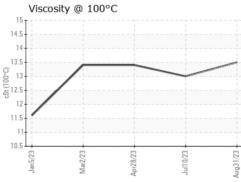
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

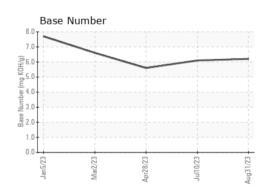
FLUID PROPE	:RHES	method			history2
Visc @ 100°C	cSt	ASTM D445	13.5	13.0	13.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10649583

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0089623 : 05953624

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

Received Diagnosed Diagnostician : Wes Davis

: 18 Sep 2023 : 20 Sep 2023

VULCRAFT 1501 W DARLINGTON ST FLORENCE, SC US 29501

Contact: DAVID VOUGHT

david.vought@vulcraft-sc.com T: (843)409-3910

* - 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)

Contact/Location: DAVID VOUGHT - VULFLO