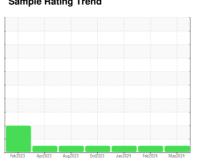


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 114 (S/N 3HSPAAPR1PN664807)

Diesel Engine

SHELL ROTELLA T4 15W40 (--- GAL)

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

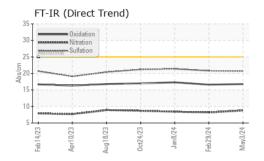
Fluid Condition

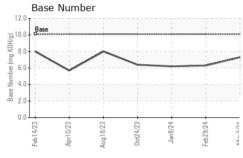
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

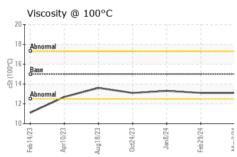
		Feb2023	Apr2023 Aug2023	Oct2023 Jan2024 Feb2024	May2024				
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		PCA0119517	PCA0105526	PCA0105517			
Sample Date		Client Info		03 May 2024	29 Feb 2024	08 Jan 2024			
Machine Age	mls	Client Info		156702	136475	118300			
Oil Age	mls	Client Info		20227	18175	20094			
Oil Changed	0	Client Info		Changed	Changed	Changed			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0			
Water		WC Method	>0.2	NEG	NEG	NEG			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METAL	S	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>90	11	8	12			
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>2	<1	0	<1			
Titanium	ppm	ASTM D5185m	>2	<1	0	<1			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	4	3	5			
Lead	ppm	ASTM D5185m	>40	<1	<1	<1			
Copper	ppm	ASTM D5185m	>330	<1	<1	<1			
Tin	ppm	ASTM D5185m	>15	<1	0	1			
Vanadium	ppm	ASTM D5185m		0	0	<1			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m		59	94	103			
Barium	ppm	ASTM D5185m		<1	0	0			
Molybdenum	ppm	ASTM D5185m		26	4	7			
Manganese	ppm	ASTM D5185m		<1	0	<1			
Magnesium	ppm	ASTM D5185m		267	26	40			
Calcium	ppm	ASTM D5185m		1915	2087	2198			
Phosphorus	ppm	ASTM D5185m		1111	823	1030			
Zinc	ppm	ASTM D5185m		1249	977	1257			
Sulfur	ppm	ASTM D5185m		3642	3433	3701			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	5	3	5			
Sodium	ppm	ASTM D5185m		2	2	2			
Potassium	ppm	ASTM D5185m	>20	13	12	18			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>6	0.3	0.2	0.3			
Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.2	8.4			
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	20.8	21.4			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	16.6	17.3			
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	7.3	6.3	6.2			
. ,	- 0								

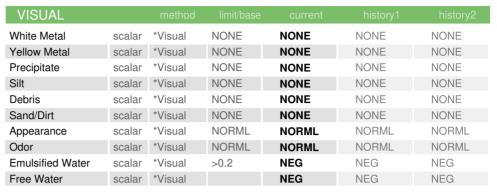


OIL ANALYSIS REPORT



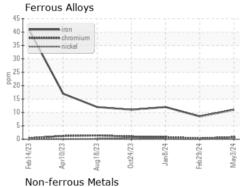


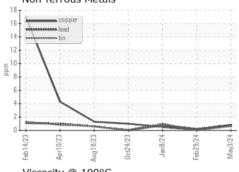


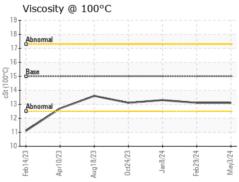


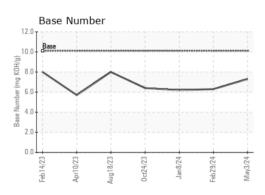
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15	13.1	13.1	13.3

GRAPHS













Certificate 12367

Laboratory Sample No.

: PCA0119517 Lab Number : 06196303

Unique Number : 11058426 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024

Tested : 03 Jun 2024

Diagnosed : 03 Jun 2024 - Wes Davis

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)

Report Id: VULFLO [WUSCAR] 06196303 (Generated: 06/03/2024 09:11:20) Rev: 1

Contact/Location: DAVID VOUGHT - VULFLO