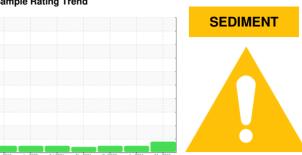


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

VACPUMP-045 - EAST (S/N 1812B1604)

Pump

SHELL MORLINA S4 B 320 (--- GAL)

DIAGNOSIS

Recommendation

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.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0902635	WC0855702	WC0743378
Sample Date		Client Info		13 May 2024	08 Jan 2024	27 Oct 2022
Machine Age	hrs	Client Info		22509	20394	17550
Oil Age	hrs	Client Info		2117	2002	2238
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	<1	0	<1
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>7	3	0	0
Lead	ppm	ASTM D5185m	>12	<1	0	0
Copper	ppm	ASTM D5185m	>30	<1	0	<1
Tin	ppm	ASTM D5185m	>9	<1	0	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		<1	0	2
Magnesium	ppm	ASTM D5185m		1	0	0
Calcium	ppm	ASTM D5185m		6	0	0
Phosphorus	ppm	ASTM D5185m		118	88	265
Zinc	ppm	ASTM D5185m		3	0	0
Sulfur	ppm	ASTM D5185m		211	268	543
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	2	<1	<1
Sodium	ppm	ASTM D5185m		6	0	2
Potassium	ppm	ASTM D5185m	>20	2	1	<1
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
A	1/0111	AOTA DOGGE		0.50	0.40	0.54

Acid Number (AN)

mg KOH/g ASTM D8045

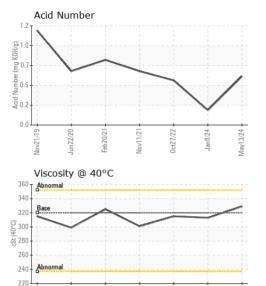
0.18

0.59

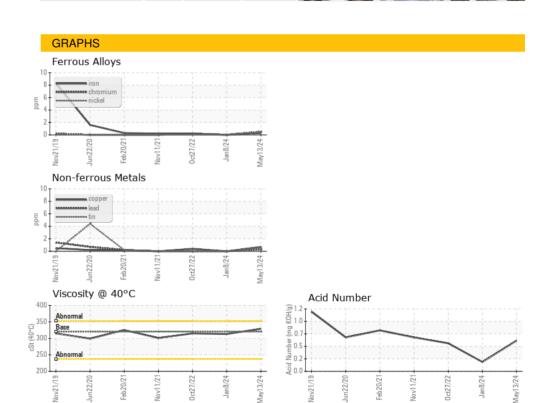
0.54



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	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
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	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	329	313	315
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				a	a. (1)	







Certificate 12367

Laboratory Sample No.

: WC0902635 Lab Number : 06181489 Unique Number : 11032815

Test Package : IND 2

Bottom

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 May 2024 **Tested** : 17 May 2024

Diagnosed

: 20 May 2024 - Angela Borella

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)

PRINSCO - PRINSBURG PO BOX 265

PRINSBURG, MN US 56281 Contact: KYLE SPORTEL

kyles@prinsco.com

T: (320)978-4116

Report Id: PRIPRIMN [WUSCAR] 06181489 (Generated: 05/20/2024 12:27:54) Rev: 2

Contact/Location: KYLE SPORTEL - PRIPRIMN