

OIL ANALYSIS REPORT



A140621476 - GENSET

Sample No: VPA026532

Oil Type: SHELL ROTELLA T6 5W40

SAMPLE INFORMATION

Sample Number	VPA026532	VPA040285	VPA040280	VPA024162
Sample Date	13 Apr 2024	23 Oct 2022	23 Oct 2021	11 Oct 2020
Machine Hours	965	916	871	832
Oil Hours	49	143	40	59
Oil Changed	Not Changd	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

KENN WOLF
 4037 N LOWEL
 CHICAGO, IL
 US 60641
 Contact: KENN WOLF
 kwolf@hfsmaterials.com
 T: (773)339-0633
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.0	13.5	13.7	13.9
Base Number (BN)	mg KOH/g	9.3	10.3	---	---
Oxidation (PA)	%	56	60	57	65

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	56	60	53	53
Sulfation (PA)	%	45	49	46	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	6	6	6
Sodium	ppm	4	3	4	4
Potassium	ppm	3	1	<1	1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	6	5	3	4
Copper	ppm	2	1	1	1
Lead	ppm	1	0	<1	<1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	58	53	57	26
Nickel	ppm	1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	938	1059	1061	1765
Magnesium	ppm	964	900	931	472
Zinc	ppm	1182	1193	1163	1189
Phosphorus	ppm	1095	988	997	1051
Barium	ppm	0	0	0	0
Boron	ppm	78	90	89	169

Depot: VPKENCHI
Unique No: 10982783
Signed: Don Baldrige
Report Date: 22 Apr 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

