

OIL ANALYSIS REPORT



TE VAKA 10072 M55863 - CENTER DIESEL ENGINE

Sample No: VPA058998

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA058998	VPA041375	VPA031299	VPA028784
Sample Date	09 Dec 2023	24 Jan 2023	07 Feb 2022	11 Feb 2021
Machine Hours	846	798	750	714
Oil Hours	48	48	38	0
Oil Changed	N/A	Changed	Not Changd	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

The Talaria Company

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OIL CONDITION

Visc @ 100°C	cSt	13.8	14.0	14.6	14.7
Base Number (BN)	mg KOH/g	9.0	8.5	9.5	---
Oxidation (PA)	%	70	70	73	68

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.1	0.1
Nitration (PA)	%	65	61	57	44
Sulfation (PA)	%	57	58	61	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	3	<1	5
Sodium	ppm	5	5	<1	3
Potassium	ppm	4	7	7	8

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 acceptable for the time in service.

WEAR METALS

Iron	ppm	6	9	5	3
Copper	ppm	4	7	8	2
Lead	ppm	0	2	<1	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	2	1	0	0
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	25	<1	3	<1
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1860	2373	2099	2235
Magnesium	ppm	303	21	0	10
Zinc	ppm	1244	1291	1085	1075
Phosphorus	ppm	1044	1057	886	1027
Barium	ppm	0	0	0	0
Boron	ppm	104	183	202	180

Depot: VP592286
 Unique No: 10794138
 Signed: Sean Felton
 Report Date: 20 Dec 2023

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GRAPHS

