

OIL ANALYSIS REPORT



JOE WANNER MERCUISER 1A615526 - PORT GASOLINE ENGINE

Sample No: VPA036929
Oil Type: MERCURY 25W40

SAMPLE INFORMATION

Sample Number	VPA036929	VPA044995	VPA038618	---
Sample Date	18 Oct 2023	24 Oct 2022	27 Oct 2021	---
Machine Hours	600	529	463	---
Oil Hours	71	70	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	10.9	11.62	10.6	---
Base Number (BN)	mg KOH/g	7.9	7.1	---	---
Oxidation (PA)	%	18	17	21	---

CONTAMINATION

Water	%	---	---	0.119	---
Soot %	%	0	0.1	0.1	---
Nitration (PA)	%	10	11	13	---
Sulfation (PA)	%	13	14	15	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	17	24	41	---
Sodium	ppm	2	<1	4	---
Potassium	ppm	0	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	13	37	46	---
Copper	ppm	2	3	5	---
Lead	ppm	2	4	7	---
Tin	ppm	1	1	3	---
Aluminum	ppm	2	4	3	---
Chromium	ppm	<1	2	1	---
Molybdenum	ppm	42	39	46	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	1	1	---
Vanadium	ppm	0	<1	0	---

ADDITIVES

Calcium	ppm	1754	1614	1422	---
Magnesium	ppm	37	61	216	---
Zinc	ppm	721	783	828	---
Phosphorus	ppm	624	609	674	---
Barium	ppm	0	0	0	---
Boron	ppm	93	0	4	---

Depot: VP1080862
Unique No: 10714085
Signed: Don Baldrige
Report Date: 30 Oct 2023

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GRAPHS

