

SUBARU SUBARU WRX - GASOLINE ENGINE

Sample No: VCP383776

Oil Type: AMSOIL (ASL) SYN MOTOR OIL 5W30

SAMPLE INFORMATION

Sample Number	VCP383776	VCP418880	VCP388146	---
Sample Date	21 Apr 2024	28 Feb 2024	15 Oct 2023	---
Machine Hours	73272	70384	43811	---
Oil Hours	2888	3151	5112	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	10.0	9.8	8.8	---
Base Number (BN)	mg KOH/g	9.84	10.72	7.9	---
Oxidation (PA)	%	74	67	13	---

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.

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0	---
Nitration (PA)	%	12	12	10	---
Sulfation (PA)	%	35	33	12	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	12	14	16	---
Sodium	ppm	6	7	4	---
Potassium	ppm	<1	3	6	---

WEAR METALS

Iron	ppm	6	10	2	---
Copper	ppm	4	6	<1	---
Lead	ppm	0	0	<1	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	4	4	3	---
Chromium	ppm	<1	1	0	---
Molybdenum	ppm	205	194	65	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	3	2	0	---
Manganese	ppm	1	<1	<1	---
Vanadium	ppm	0	<1	0	---

ADDITIVES

Calcium	ppm	1286	1202	1148	---
Magnesium	ppm	930	896	946	---
Zinc	ppm	861	851	804	---
Phosphorus	ppm	742	739	650	---
Barium	ppm	<1	0	0	---
Boron	ppm	321	289	154	---

Depot: VOLVO0010
Unique No: 11058301
Signed: Jonathan Hester
Report Date: 05 Jun 2024

Contact/Location: THOMAS PICKANCE - VOLVO0010

GRAPHS

