



OIL REPORT

LAB NUMBER: E01893
 REPORT DATE: 1/29/2010
 CODE: 20/284

UNIT ID: 04 350Z
 CLIENT ID: 35120
 PAYMENT: Verbal, Suzanne

UNIT	MAKE/MODEL: Nissan 3.5L V-6 (VQ35)	OIL TYPE & GRADE: Motul 15W/50
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 1,000 Miles
	ADDITIONAL INFO: Engine in Weeks	

CLIENT	SUZANNE & FRANK HILL	PHONE: (410) 636-5554
	HILL GARAGE	FAX:
	4700 BELLE GROVE RD UNIT 15	ALT PHONE:
	BALTIMORE, MD 21225	EMAIL: hillgarage@gmail.com

COMMENTS SUZANNE/FRANK: Slowly but surely, this engine is improving. It looks like this oil was run twice the miles of the last, yet we still found improvements. This bodes well, and we think the engine is headed in the right direction in terms of wear. Silicon is still hanging around, but chances are good this is something harmless and eventually it should wash out altogether. Sodium, which we think is leftover additive, is also washing out. The viscosity is normal for 15W/50 oil. Fuel contamination is not a problem as long as it reads less than 2.0%. It's likely from operational issues.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	1,000	UNIT / LOCATION AVERAGES	500	1	300	UNIVERSAL AVERAGES
	MI/HR on Unit			7	1	500	
	Sample Date	12/29/09		07/10/09	05/16/09	03/25/09	
	Make Up Oil Added	0 qts		1 qts		0 qts	
ALUMINUM	4	14	24	9	18	3	
CHROMIUM	3	4	5	1	7	1	
IRON	37	105	184	27	171	11	
COPPER	12	24	61	4	20	6	
LEAD	13	40	99	2	47	6	
TIN	4	6	15	1	3	1	
MOLYBDENUM	572	148	4	13	3	68	
NICKEL	1	1	1	0	1	0	
MANGANESE	1	2	3	1	2	1	
SILVER	0	0	0	1	0	0	
TITANIUM	2	1	1	2	0	0	
POTASSIUM	4	3	3	2	3	1	
BORON	12	5	2	1	6	51	
SILICON	31	31	38	47	9	12	
SODIUM	61	231	245	312	307	14	
CALCIUM	1260	1488	1383	1903	1406	2344	
MAGNESIUM	804	261	224	8	7	117	
PHOSPHORUS	835	647	688	502	561	698	
ZINC	981	789	874	641	658	842	
BARIUM	0	1	0	1	1	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	70.5	79-92	61.5	57.6	72.1
	cSt Viscosity @ 100°C	13.08	15.3-18.7	10.65	9.52	13.51
	Flashpoint in °F	380	>405	415	385	370
	Fuel %	1.3	<2.0	<0.5	<0.5	0.8
	Antifreeze %	0.12	0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.3	<0.6	0.3	0.2	0.4
	TBN					
	TAN					
	ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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