



OIL REPORT

LAB NUMBER: J06076

UNIT ID: 04 VQ35DE

REPORT DATE: 1/23/2017

CLIENT ID:

CODE: 63/32

PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Nissan 3.5L V-6 (VQ35DE)	OIL TYPE & GRADE: Valvoline 10W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 2,737 Miles
	ADDITIONAL INFO: Rebuilt engine w/ JE Pistons	

CLIENT	CHRISTOPHER JOHNSON	PHONE:
		FAX:
		ALT PHONE:
		EMAIL:

COMMENTS CHRIS: You can see previous samples done since the engine was rebuilt. Unfortunately, it's not great news as far as aluminum and iron are concerned. Aluminum typically shows piston wear and iron is from steel parts like cylinders and rotating shafts. We're not sure if this is piston scuffing though, since chrome is low, which is from the piston rings. We've seen these two metals come from something like a bad timing chain tensioner where the chain is rubbing against the aluminum case, but that's just a guess. This is a lot of metal, so check back in just 1,500 miles.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	2,737	UNIT / LOCATION AVERAGES	1,447	1,841	UNIVERSAL AVERAGES
	MI/HR on Unit	6,025		4,647	1,841	
	Sample Date	1/8/2017		10/3/2016	8/31/2016	
	Make Up Oil Added	1.25 qts				
ALUMINUM	65	32	45	3		
CHROMIUM	1	0	0	1		
IRON	123	73	65	11		
COPPER	17	21	44	6		
LEAD	4	4	10	5		
TIN	2	1	2	1		
MOLYBDENUM	1	0	3	72		
NICKEL	1	0	1	0		
MANGANESE	1	0	1	1		
SILVER	0	0	0	0		
TITANIUM	0	0	0	1		
POTASSIUM	2	2	4	2		
BORON	1	1	1	47		
SILICON	17	26	55	14		
SODIUM	467	378	402	34		
CALCIUM	2005	1889	1770	2177		
MAGNESIUM	14	9	14	203		
PHOSPHORUS	868	759	806	723		
ZINC	1028	1008	1019	857		
BARIUM	0	0	1	0		

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	65.3	64-76	67.2	83.2
	cSt Viscosity @ 100°C	11.68	11.3-14.8	12.20	16.32
	Flashpoint in °F	410	>375	400	425
	Fuel %	<0.5	<2.0	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	?
	Water %	0.0	<0.1	0.0	0.0
	Insolubles %	0.2	<0.6	0.2	0.3
	TBN				
	TAN				
	ISO Code				

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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