WHY OIL ANALYSIS? LEARN WHAT'S GOING ON WITH YOUR ENGINE COST: $29.99

Oil analysis is a quick, nondestructive way to gauge the health of an engine by looking at what's in the oil. People use oil analysis for different reasons: to see if there are any problems developing, to see if their oil is working well in the engine, and to see if they can run longer oil changes. Get started with your analysis by ordering a free test kit.

BLACKSTONE LABORATORIES

OIL REPORT

LAB NUMBER: J98265 **UNIT ID:** 04 PRAIRIE
REPORT DATE: 2/20/2018 **CLIENT ID:**
CODE: 63/32 **PAYMENT:** CC: Visa

UNIT

MAKE/MODEL: Kawasaki 700cc V-Twin
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: 10W/40
OIL USE INTERVAL: Miles

CLIENT

This Kawasaki is in bad shape. There's a lot of fuel in the oil, as well as sodium and moisture, which can be an indication of coolant. Aluminum, chrome, and iron are reading at cautionary levels, and silicon may indicate something abrasive in the oil.

COMMENTS

This engine has a problem. We calculated that 9.3% of the sample was fuel (based on the low flashpoint). That was enough to thin the viscosity below the 0W/20 grade range. The cylinder not firing could very well have contributed to the fuel in the oil, as well as the cylinder-area wear. Aluminum comes from the pistons, chrome is from the rings, and iron comes from steel parts like the cylinders. Silicon could show abrasive dirt causing wear, so check air intakes for leaks. Sodium could be oil additive (harmless) or possibly coolant. The water shouldn't be there. Check back.

ELEMENTS IN PARTS PER MILLION

		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Oil								
MI/HR on Unit	2,300							
Sample Date	1/28/2018							
Make Up Oil Added	0 qts							
ALUMINUM	**40**	40						7
CHROMIUM	**18**	18						1
IRON	**130**	130						15
COPPER	54	54						37
LEAD	4	4						8
TIN	1	1						1
MOLYBDENUM	1	1						23
NICKEL	0	0						0
MANGANESE	3	3						1
SILVER	1	1						0
TITANIUM	1	1						0
POTASSIUM	6	6						6
BORON	3	3						96
SILICON	**84**	84						22
SODIUM	**273**	273						48
CALCIUM	1084	1084						1332
MAGNESIUM	14	14						444
PHOSPHORUS	531	531						871
ZINC	620	620						1014
BARIUM	0	0						2

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°	**38.2**	64-75					
cSt Viscosity @ 100°C	**3.61**	11.3-14.5					
Flashpoint in °F	**180**	>375					
Fuel %	**9.3**	<2.0					
Antifreeze %	**?**	0.0					
Water %	**TR**	0.0					
Insolubles %	0.4	<0.6					
TBN							
TAN							
ISO Code							

*** THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE**

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LIABILITY LIMITED TO COST OF ANALYSIS