

UIN 056E377

Gasoline Engine

Unit No. 49 Willys

Unit:
Make Fiat
Model .
Serial No.
Site

Compartment:
Name Gasoline Engine
Make
Model
Serial No.
Capacity: Ltrs

Customer:
TOM FITCH
4016 N Hwy 1
Fort Collins CO 80524
USA

DIAGNOSIS

Bearing (Lead) wear rates are higher than normal. The higher than normal copper level is due to leaching of copper oxide from the oil cooler, and does not indicate a related wear problem. Silicon level (dirt/sealant material) satisfactory. Water content acceptable. Viscosity high for specified oil grade.

Action: As oil and filter(s) already changed, Resample at next recommended interval to monitor and establish wear trend.

ANALYST: Stan.Leitz



LEGEND






Caution

Severe

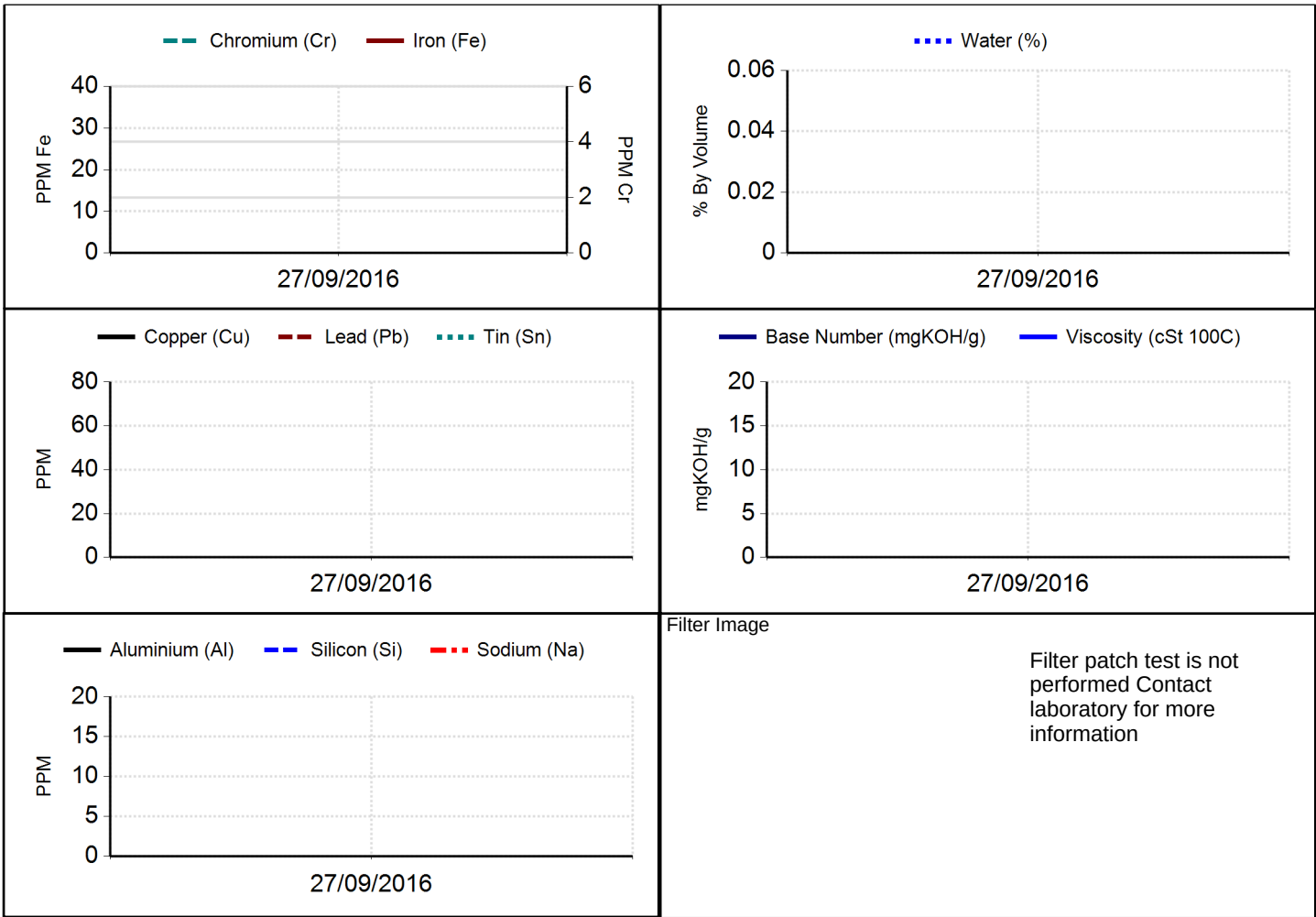
Abnormal

Caution

Normal

DATE SAMPLED	27-Sep-16
DATE RECEIVED	06-Oct-16
DATE REPORTED	07-Oct-16
LAB NO.	40110666687
SIF NO.	011322
TIME ON UNIT	Mi
TIME ON OIL	Mi 3000
OIL BRAND	Mobil
OIL TYPE	Mobil 1 High Mileage
OIL GRADE	SAE 10W40
OIL ADDED	
FILTER	Changed
OIL CHANGED	Changed
WO NUMBER	
Metals (ppm)	
Iron (Fe)	39
Chromium (Cr)	6
Lead (Pb)	71
Copper (Cu)	67
Tin (Sn)	4
Aluminium (Al)	14
Nickel (Ni)	<1
Silver (Ag)	<1
Titanium (Ti)	<1
Vanadium (V)	<1
Contaminants (ppm)	
Silicon (Si)	19
Sodium (Na)	6
Potassium (K)	2
Additives (ppm)	
Magnesium (Mg)	993
Calcium (Ca)	1504
Barium (Ba)	<1
Phosphorus (P)	1864
Zinc (Zn)	2121
Molybdenum (Mo)	108
Boron (B)	89
Contaminants	
Water (%)	<0.05
Coolant	No
Physical Tests	
Viscosity (cSt 100C)	16.8
Physical / Chemical	
Base Number (mgKOH/g)	7.5





Since services are based on samples and information supplied by others, and since corrective actions, if any, are necessarily taken by others, these services are rendered without any warranty or liability of any kind beyond the actual amount paid to ALS Tribology for the services. Reported recommendations are based on interpretations of the generated test results and historical data. Certain test results appearing in this report may have been tested at other ALS laboratories within the Tribology divisional network.

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