



Review Reports

MOB 2 Sample Report

Test kit used

MOBILE OIL ANALYSIS REPORT

CONTAMINATION	ABNORMAL
OIL CONDITION	ABNORMAL
WEAR	ABNORMAL

SK 657 - Diesel Engine

Unit Make : N/A Serial No : (n/a) Date Rec'd : Oct 12, 2000
 Unit Model : (n/a) Cust. Ref No : (n/a) Sample Date : Oct 7, 2000
 Comp Make : DETROIT Stub No. : WC-397795 Diagnostician : D Mufti
 Comp Model : SERIES 60

RECOMMENDATION

We recommend an early resample to monitor this condition.

Sample Date	2/18/00	6/1/00	9/21/00	Current	UOM
Time on Unit	129044	173058	192019	201040	kms
Time on Oil	37683	44014	62975	71996	kms
Time on Filt	37683	44014	18961	27982	kms
Oil Maint.	Changed	Changed	Not Changed	Changed	---
Filter Maint.	Changed	Changed	Not Changed	Changed	---

CONTAMINATION

There is an abnormal level of nitration indicated. There is an abnormal level of sulfation indicated.

Sample Date	2/18/00	6/1/00	9/21/00	Current	Abn
Silicon	11	14	14	42	15
Potassium	0.0	0.0	0.0	0.0	10
Sodium	46	35	29	22	50
Fuel (%)	<2.0	<2.0	<2.0	<2.0	2.0
Glycol (%)	0.0	<0.02	<0.02	<0.02	0.02
Water (%)	<0.1	<0.1	<0.1	<0.1	0.1
Soot (%)	0.6	1.1	1.8	1.8	2.0
Sulfation	85	97	109	112	100
Nitration	91	100	100	109	100

OIL CONDITION

A small degree of oil oxidation was indicated. The TAN level is above the recommended limit. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sample Date	2/18/00	6/1/00	9/21/00	Current	Base
Boron	6.9	3.9	4.4	26	
Barium	0.6	0.4	0.6	0.6	
Calcium	3627	4516	4213	3634	
Magnesium	78	58	44	91	
Molybdenum	0.0	0.0	0.0	20	
Sodium	46	35	29	22	
Phosphorus	1098	1312	1432	1270	
Sulfur	4510	4608	5391	4839	
Zinc	1366	1533	1633	1724	
Visc@40°C	122	118	119	118	
Visc@100°C	147	154	149	149	
Oxidation	76	89	99	105	---
TAN	5.67	5.23	5.96	5.51	---
TBN	5.51	6.87	3.40	3.86	---

WEAR

The iron level is abnormal. The lead level is abnormal. A sharp increase in the tin level is noted. Bearing and/or bushing, and cylinder and/or crankshaft wear is indicated.

Sample Date	2/18/00	6/1/00	9/21/00	Current	Abn
Iron	38	158	150	156	---
Nickel	0.0	0.0	0.0	0.0	---
Chromium	1.6	1.9	2.5	3.1	---
Titanium	0.0	0.0	0.0	0.0	---
Copper	2.7	6.0	6.3	7.5	---
Aluminum	1.8	1.3	4.9	4.4	---
Tin	0.0	7.1	3.1	7.0	---
Lead	12	37	47	64	---
Silver	0.2	0.0	0.0	0.2	---

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Quick Sample Status

Unit Identification

Unit Information

Including make, model, s/n

Recommendation

Summary and any necessary corrective actions required.

Contamination

Dirt, Water, Soot, Fuel, Glycol, IR data Identifies any abnormal contaminants present in the oil.

Oil Condition

Oil additive levels in ppm
 Viscosity @ 100°C
 *On MOB 2 Total Base Number (BN)
 Determines if oil is suitable for continued use.

Wear

Wear metals in parts per million (ppm)
 Determines if equipment is wearing Abnormally.

Sample Information

Sample, Recieved Date
 Sample Number

Maintenance Info

Time on oil, filter, component
 Maintenance actions

Abnormal Limits

New oil baseline

Base and Acid numbers

Report Identification



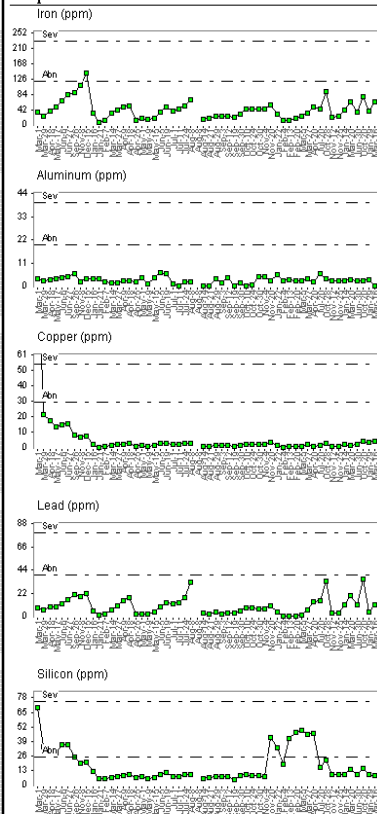
Review Reports

MOB 2 Sample Report (back)

Iron Graph

Trend of the iron level of the component showing both the abnormal and severe limits.

Graphs



Aluminum Graph

Trend of the aluminum level of the component showing both the abnormal and severe limits.

Copper Graph

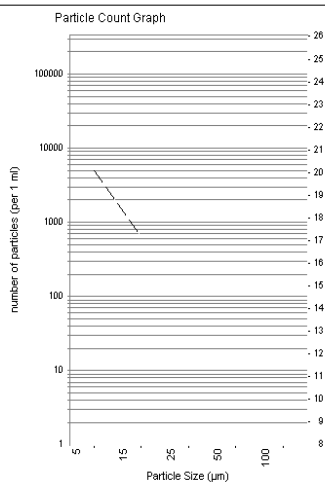
Trend of the copper level of the component showing both the abnormal and severe limits.

Lead Graph

Trend of the lead level of the component showing both the abnormal and severe limits.

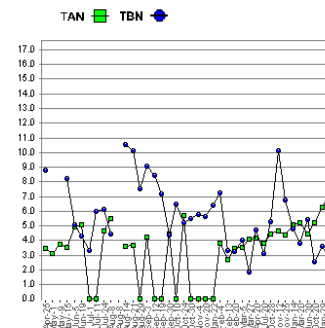
Silicon Graph

Trend of the silicon level of the component showing both the abnormal and severe limits.



Particle Count Graph

A chart of the current particle levels in an easy to read format showing the current particle levels against the ISO level. The chart also shows the target level.



Base and Acid Number Graph

Showing the trend of AN and BN versus the baseline values.

If you have any questions concerning this sample report (work order no 00862920) please call 1-800-268-2131.



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