

# Report Example

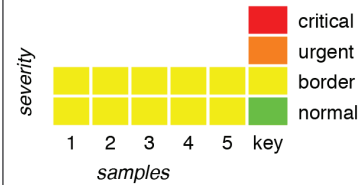
## Gas Engine Oil Analysis



### GAS ENGINE

### PROBLEM SEVERITY

#### BORDERLINE



KWAZULU-NATAL:  
P.O. BOX 15108  
WESTMEAD 3608  
TEL: (031) 700 5460  
FAX: (031) 700 5471

GAUTENG:  
P.O. BOX 284  
ISANDO 1600  
TEL: (011) 392 6322  
FAX: (011) 392 6340

Vehicle: Code:  
Alt. ID: Job No:  
Model: Site:  
Component: GAS ENGINE Oil: MOBIL PEGASUS 1005  
Model: PERKINS QUANTUM ES Fuel Type:  
O/HAULED @:

#### DIAGNOSIS

5.) Sample Number PL06471 on 19.02.2019 smr 17016 HRS  
Top end wear rates are higher than normal. Check that blow-by is not excessive.  
The Total Acid Number (TAN) of this oil is unacceptably high. IpH level is low. Tests show that oil was at end of its useful service life. Oil already changed do not drain again. Please return feedback. REPEAT PROBLEM oil-u/sx7.

#### PREVIOUS HISTORY

#### DIAGNOSES

#### FEEDBACK

1.) Sample Number PL06461 on 29.10.2018 smr 14336 HRS  
Top end wear rates are higher than normal. Check compression and blow-by. The Total Acid Number (TAN) of this oil is unacceptably high. IpH level is low. Tests show that oil was at end of its useful service life. Oil already changed do not drain again. Please return feedback. REPEAT PROBLEM oil-u/sx3.

2.) Sample Number PL06479 on 12.12.2018 smr 15378 HRS  
Top end wear rates are higher than normal. Check compression and blow-by. The Total Acid Number (TAN) of this oil is unacceptably high,an increased TAN made the oil unfit for further use. Oil already changed do not drain again. Please return feedback. REPEAT PROBLEM oil-u/sx4.

3.) Sample Number PL06478 on 07.01.2019 smr 16000 HRS  
Top end wear rates are higher than normal. Check that blow-by is not excessive. The Total Acid Number (TAN) of this oil is unacceptably high. IpH level is low. Oil already changed do not drain again. Please return feedback. REPEAT PROBLEM oil-u/sx5.

4.) Sample Number PL06475 on 28.01.2019 smr 16500 HRS  
Top end wear rates are higher than normal. Check compression and blow-by. IpH level is low. Tests show that oil was at end of its useful service life. Oil already changed do not drain again. Please return feedback. REPEAT PROBLEM oil-u/sx6.

WEARCHECK IS AN ISO 9001 AND ISO 14001 REGISTERED COMPANY



# Report Example

## Gas Engine Oil Analysis

Vehicle: 16002 - GAS ENGINE - Alt. ID: W000181A -

SAMPLE NUMBER	DATE SAMPLED	LAB DATE	OIL CONSUMPTION	SMR	UNITS	OIL IN SERVICE	FILTER CHANGE	OIL DRAIN	RRI	
1	PL06461	29.10.18	02.11.18	-	14336	HRS	574	Yes	Yes	250
2	PL06479	12.12.18	13.12.18	-	15378	HRS	500	Yes	Yes	250
3	PL06478	07.01.19	11.01.19	-	16000	HRS	622	Yes	Yes	250
4	PL06475	28.01.19	31.01.19	-	16500	HRS	500	Yes	Yes	250
5	PL06471	19.02.19	22.02.19	-	17016	HRS	516	Yes	Yes	250

### WEAR METALS

### FUEL

Too few values to plot Fuel (%)

Sample	Iron	Chromium	Nickel	Aluminium	Copper	Tin	Lead	Bismuth	PQ Index
1	29	0	0	11	0	0	0	0	11
2	36	0	0	9	0	0	0	0	16
3	68	0	0	9	0	0	0	0	15
4	51	0	0	8	0	0	0	0	20
5	31	0	0	9	1	1	0	0	25

30 spectrometric analyses are carried out on all samples but only relevant results are reported in parts per million.

### CONTAMINANTS

Sample	Silicon	Sodium	Soot Value	Soot %	Oxidation	Sulphate	Nitrates	Water (%)
1	7	5	3	0.1	17	10	8	ND
2	4	4	0	0.0	15	8	5	ND
3	5	4	0	0.0	18	10	6	ND
4	4	10	0	0.0	15	8	5	ND
5	3	8	0	0.0	12	7	4	ND

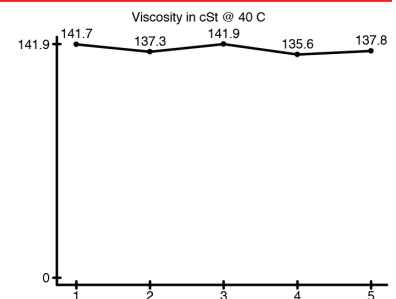
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### ADDITIVES & LUBRICANT CONDITION

### VISCOSITY

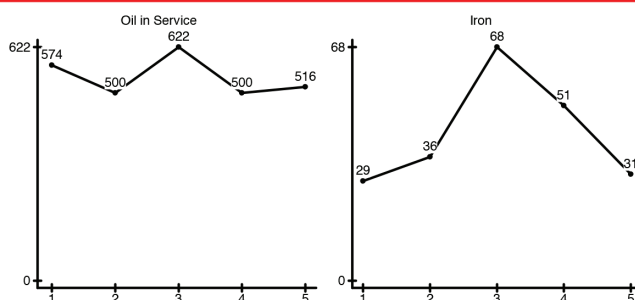
Sample	Magnesium	Calcium	Molybdenum	Zinc	Phosphorous	Boron	Sulphur	TAN	TBN(D4739)	TBN(D2896)	IPH
1	9	1921	0	467	374	102	2297	3.80	1.4	4.8	3.7
2	7	1938	0	490	360	76	2535	3.80	2.0	4.7	4.1
3	8	2147	0	509	394	99	2484	4.00	2.9	3.6	3.6
4	9	1985	0	464	330	108	2559	3.40	2.1	3.3	3.6
5	7	1886	0	470	350	108	2505	4.00	1.5	4.4	3.4

Sample	Viscosity in cSt @ 40 C	Viscosity in cSt @ 100 C	Viscosity Index
1	141.7	14.9	105
2	137.3	14.9	109
3	141.9	15.3	110
4	135.6	14.7	109
5	137.8	15.1	111



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### GRAPHICAL REPRESENTATION OF KEY DATA



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