

Report Examples

Gas Engine Oil Analysis



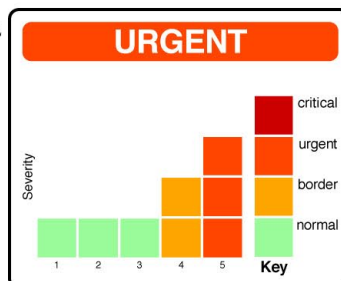
Gas Engine Oil Analysis Report

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SEVERITY



Sample Number: PL03112

Machine : 124578
Serial No :
Alt Id : Engine No 1
Description: Rolls-Royce B35
Component : Engine
Model : Rolls-Royce

Code : 1GAENG
Job No :
Location : Engine Hall
Oil : Shell Mysell SS N40
Fuel Type: Natural Gas

Diagnosis

Current Sample

5.) s/n:PL03112 on 01/12/2016 SMR:7660HRS
Acid number is high. IpH is low . Iron level is higher than normal. Internal coolant leak indicated - pressure test cooling system to locate leak into engine. 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/sx2 .

<Feedback on 28/12/2016 SMR:8163HRS>
checked the crankcase for leak and nothing was found. There is a chance that water came for a replaced cylinder head. Will check next test results. .

Diagnoses

Previous History

Feedback

1.) s/n:XK10822 on 12/05/2016 SMR:3720HRS
Wear rates are normal and the sample provided appears free from unacceptable contamination or degradation.

2.) s/n:XK10829 on 31/05/2016 SMR:4107HRS
Wear rates are normal and the sample provided appears free from unacceptable contamination or degradation.

3.) s/n:PL03001 on 03/10/2016 SMR:6636HRS
Wear rates are normal and the sample provided appears free from unacceptable contamination or degradation. Debris analysis normal.

4.) s/n:PL03003 on 08/11/2016 SMR:7308HRS
Acid number is high. Base number is low. IpH level is low. Wear rates have increased. Check oil filter for abnormal wear particles. An increased TAN and a depleted active additive level makes the oil unfit for further use. Recommend changing the oil. Please return feedback.

27/05/2016 SMR:4007HRS

commercial operation on dec 12, and until now is using shell mysella s5 n40 .

PTO



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Condition Monitoring Specialists

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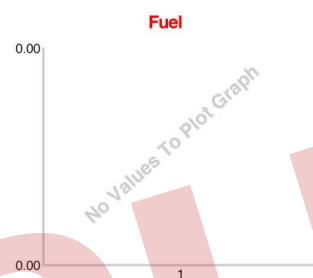
Machine : 124578 - MACHINE - Alt. ID : Engine No. 1

Sample Number	Date Sampled	Date Received	Date Reported	Oil Consumption	SMR	UNITS	Oil In Service	Filter Changed	Oil Drained	Oil Brand And Grade	RRI	
1	XK10822	12/05/2016	24/05/2016	25/05/2016	-	3720	HRS	0	Yes	Yes	SHELL MYSELLA S5 N 40	250
2	XK10829	31/05/2016	14/06/2016	17/06/2016	-	4107	HRS	0	Yes	Yes	SHELL MYSELLA S5 N 40	250
3	PL03001	03/10/2016	01/11/2016	08/11/2016	NORMAL	6636	HRS	10	Yes	Yes	SHELL MYSELLA S5 N 40	250
4	PL03003	08/11/2016	26/11/2016	29/11/2016	-	7308	HRS	0	No	No	SHELL MYSELLA S5 N 40	250
5	PL03112	01/12/2016	16/12/2016	20/12/2016	-	7660	HRS	0	Yes	Yes	SHELL MYSELLA S5 N 40	250

Wear Metals

Sample	Iron	Chromium	Nickel	Molybdenum	Aluminium	Copper	Tin	Lead	PQ Index	Bismuth
1	10	0	0	0	3	5	1	0	14	0
2	11	0	0	0	3	6	2	0	16	0
3	17	0	0	0	3	10	3	0	12	0
4	20	0	0	0	3	11	1	1	7	0
5	23	1	0	0	3	12	3	2	7	0

Fuel



A full spectrometric analysis is carried out on all samples but only relevant results are reported in parts/million

Contaminants

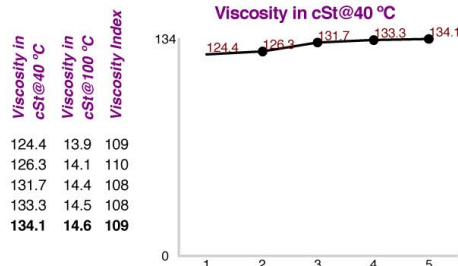
Sample	Silicon	Sodium	Soot(%)	Soot Value	Oxidation	Sulphate	Nitrates	Water(%)	Fuel
1	3	4	0.0	0	18	22	7	ND	<1
2	4	7	0.0	0	18	22	7	ND	<1
3	4	6	0.0	1	10	6	5	ND	
4	4	15	0.0	2	12	7	5	ND	
5	10	77	0.0	2	12	8	6	ND	

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Additives & Lubricant Condition

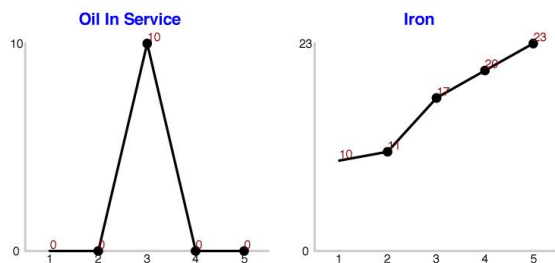
Sample	Magnesium	Calcium	Zinc	Phosphorous	Boron	Sulphur	Total Acid Number	Total Base Number(D4739)	Total Base Number(D2896)	IPH
1	6	1489	373	289	1	3190		2.2		
2	5	1665	406	311	1	2948	2.27	1.7	3.1	
3	5	1585	368	302	2	2943	3.23	1.3	2.9	4.0
4	6	1521	380	294	2	2813	4.38	1.0	2.4	2.8
5	3	1556	356	276	10	2849	3.54	1.6	2.7	3.0

Viscosity



A full spectrometric analysis is carried out on all samples but only relevant results are reported in parts/million

Graphical Representation Of Key Data



SABS | ISO 9001 | ISO 14001 | SANS 17025
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