

Reduced wear metals

BP USED OIL DIAGNOSIS REPORT

Prior to Fuelstar

Diesel Engine

	Unit		Compartment
Number	X350	Name	Diesel Engine
Make	Demag	Make	Cummins
Model	H185	Model	KTA36

Machine Location: Century Mine via Townsville Qld 4810
Tel: 07 4769 5354 | Fax: 07 4769 5355

DIAGNOSIS AND RECOMMENDATION

All wear rates normal. Abrasive and other levels satisfactory. Viscosity normal. Condition of oil satisfactory for time in service. As oil and filter(s) already changed, resample at next recommended service interval to further monitor.

SAMPLE DETAILS

SAMPLE STATUS	Normal	Normal	Normal	Normal	Normal
SAMPLE NUMBER	00986294	00983707	00981386	00981598	00981304
DATE SAMPLED	29/05/97	17/04/97	27/03/97	13/03/97	27/02/97
DATE RECEIVED	02/06/97	23/04/97	07/04/97	26/03/97	03/03/97
DATE REPORTED	10/06/97	24/04/97	08/04/97	27/03/97	04/03/97
OIL MAKE	Van C3 M	Van C3 M	Van C3 M	Van C3 M	Van C3 M
OIL GRADE	15W40	15W40	15W40	15W40	15W40
SYSTEM CAPACITY	129.0	129.0	129.0	129.0	129.0
MACHINE (Hrs)	9245	8765	8510	8245	8000
COMPONENT (Hrs)	9245	8765	8510	8245	8000
OIL (Hrs)	240	255	255	245	242
OIL ADDED (Ltrs)	N/P	N/P	N/P	N/P	N/P
FILTER (Hrs)	240	255	255	245	242
OIL CHANGED	Yes	Yes	Yes	Yes	Yes

ANALYTICAL RESULTS					
WEAR METALS (ppm)					
Aluminium	3	2	4	2	1
Copper	2	2	3	2	1
Chromium	2	1	1	1	1
Iron	24	16	16	18	12
Lead	16	8	9	6	4
Tin	2	1	1	<1	1
CONTAMINANTS AND ADDITIVES (ppm)					
Silicon	5	4	7	6	3
Boron	<5	<5	<5	<6	<5
Sodium	<1	<1	<1	<1	<1
Potassium	<1	<1	<1	<1	<1
Phosphorous	1484	1128	907	1002	1054
Molybdenum	1	<1	<1	<1	<1
Magnesium	644	506	445	441	462
Calcium	3876	2878	2308	2361	2546
Zinc	1764	1327	1193	1184	1265
PHYSICAL TESTS					
Water %	<0.1	<0.1	<0.1	<0.1	<0.1
Glycol	1.2	0.6	0.5	1.5	0.4
Soot	18	17	17	17	17
Sulphation	25.7	23.4	21.9	29.1	22.8
Oxidation	24.1	20.5	17.9	25.2	20.6
Viscosity @ 100°C	12.5	12.0	12.9	12.5	12.5
Dispersancy	Pass	Pass	Pass	Pass	Pass
PQ Index	48	41	53	42	47
Fuel	2	2	2	2	2

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BP USED OIL DIAGNOSIS REPORT

After Fuelstar

Diesel Engine

	Unit		Compartment
Number	X350	Name	Diesel Engine
Make	Demag	Make	Cummins
Model	H185	Model	KTA36

Machine Location: Century Mine via Townsville Qld 4810
 Tel: 07 4769 5354 | Fax: 07 4769 5355

DIAGNOSIS AND RECOMMENDATION

All wear rates normal. Abrasive and other levels satisfactory. Viscosity normal. Condition of oil satisfactory for time in service. As oil and filter(s) already changed, resample at next recommended service interval to further monitor.

SAMPLE DETAILS

SAMPLE STATUS	Normal	Normal	Normal	Normal	Normal
SAMPLE NUMBER	00135175	01136830	01138822	01135111	01135096
DATE SAMPLED	15/02/98	04/02/98	20/01/98	14/12/97	13/11/97
DATE RECEIVED	23/02/98	10/02/98	02/02/98	22/12/97	24/11/97
DATE REPORTED	25/02/98	12/02/98	04/02/98	24/12/97	26/11/97
OIL MAKE	Van C3 M	Van C3 M	Van C3 M	Van C3 M	Van C3 M
OIL GRADE	15W40	15W40	15W40	15W40	15W40
SYSTEM CAPACITY	129.0	129.0	129.0	129.0	129.0
MACHINE (Hrs)	13004	12760	12511	12240	12000
COMPONENT (Hrs)	13004	12760	12511	12240	12000
OIL (Hrs)	244	249	271	240	260
OIL ADDED (Ltrs)	0	0	N/P	N/P	0
FILTER (Hrs)	244	249	271	240	260
OIL CHANGED	Yes	Yes	Yes	Yes	Yes
ANALYTICAL RESULTS					
WEAR METALS (ppm)					
Aluminium	<1	<1	<1	2	2
Copper	<1	1	1	1	1
Chromium	1	1	<1	1	1
Iron	10	12	12	14	14
Lead	8	11	10	8	12
Tin	<1	<1	<1	1	1
CONTAMINANTS AND ADDITIVES (ppm)					
Silicon	4	3	4	4	4
Boron	<5	<5	<5	<5	<5
Sodium	<1	<1	<1	<1	<1
Potassium	<1	<1	<1	<1	<1
Phosphorous	1084	1116	1132	1128	1124

Molybdenum	<1	<1	<1	<1	<1
Magnesium	482	506	532	516	495
Calcium	2445	2537	2718	2773	2505
Zinc	1331	1406	1489	1411	1335
PHYSICAL TESTS					
Water %	<0.1	<0.1	<0.1	<0.1	<0.1
Glycol	1.8	0.8	1.3	0.6	1.2
Soot	18	18	18	18	18
Sulphation	23.8	24.9	25.9	24	25.9
Oxidation	23.2	23.8	26.8	23.2	25.9
Viscosity @ 100oC	13.1	13.1	13.0	13.0	13.3
Dispersancy	N/R	N/R	N/R	N/R	Pass
PQ Index	45	70	52	68	57
Fuel	1	1	1	1	1

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