MOBILE OIL ANALYSIS REPORT

CONTAMINATION	NORMAL
OIL CONDITION	NORMAL
WEAR	NORMAL

PELLET MILL - Gearbox

Unit Make : SPROUT
Unit Model : {n/a}
Comp Make : {n/a}
Comp Model : {n/a}
Serial No : {n/a}
Cust. Ref No. : {n/a}
Stub No. : KL-M2319233
Date Rec'd : Apr 12, 2017
Sample Date : Apr 6, 2017
Diagnostician : Don Baldridge

RECOMMENDATION

Resample at the next service interval to monitor.

Sample Date	05/22/08	10/07/08	12/26/11	Current	UOM
Time on Unit	0	63966	4000	0	hrs
Time on Oil	2500	3900	0	3000	hrs
Time on Fltr	1200	3900	0	0	hrs
Oil Maint.	not chg	n/a	n/a	n/a	---
Filter Maint.	changed	not chg	n/a	changed	---

CONTAMINATION

The amount and size of particulates present in the system is acceptable. There is no indication of any contamination in the component.

Sample Date	05/22/08	10/07/08	12/26/11	Current	Abn
Silicon	17	13	3.9	16	50
Potassium	0.0	6.0	5.7	0.9	20
Water (%)	<0.1	<0.1	<0.1	<0.1	0.2
>4µm(c)	358988	8269	8410	8378	---
>6µm(c)	195556	4504	4581	3375	5000
>14µm(c)	33318	767	780	524	640
>21µm(c)	11243	258	263	100	---
>38µm(c)	1736	39	40	13	---
>70µm(c)	179	4	4	4	---
ISO 4406(c)	25/22	19/17	19/17	19/16	>19/16

OIL CONDITION

Oil Type: 30 GAL of MOBIL

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample Date	05/22/08	10/07/08	12/26/11	Current	Base
Boron	4.6	3.1	0.7	0.1	---
Barium	0.0	0.0	0.4	0.7	---
Calcium	196	92	90	9.0	---
Magnesium	6.1	3.3	0.5	0.0	---
Molybdenum	0.0	0.2	1.0	1.0	---
Phosphorus	79	55	54	417	---
Sulfur	11641	9969	6989	412	---
Zinc	88	46	10	7.0	---
Visc 40°C (cSt)	276.5	273.5	275.0	295.2	---
Visc 100°C (cSt)	---	---	---	---	---
AN (mg/KOH/g)	0.192	0.060	0.434	0.272	---
BN (mg/KOH/g)	---	---	---	---	---

WEAR

All component wear rates are normal.

Sample Date	05/22/08	10/07/08	12/26/11	Current	Abn
PQ	---	---	---	---	---
Iron	10	7.3	4.3	1.1	200
Nickel	0.1	0.1	0.0	0.0	---
Chromium	0.2	0.2	0.2	0.1	10
Titanium	1.8	1.0	0.0	0.0	---
Copper	5.4	3.9	1.1	0.2	200
Aluminum	0.3	0.6	0.2	0.4	25
Tin	0.0	0.0	0.0	1.3	10
Lead	0.1	0.4	0.6	0.0	50

NOTE: all elemental values reported in parts per million (ppm).