MOB II WEAR CHECK

MOBILE OIL ANALYSIS REPORT

CONTAMINATION	NORMAL
OIL CONDITION	NORMAL
WEAR	NORMAL

VIBRATOR LUBE PUMP - Hydraulic System

Unit Make : {n/a}
Unit Model : {n/a}
Comp Make : {n/a}
Comp Model : {n/a}

Serial No : {n/a}
Cust. Ref No. : {n/a}
Stub No. : KL-M2334342

Date Rec'd : Dec 30, 2016
Sample Date : Dec 20, 2016
Diagnostician : Wes Davis

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Sample Date	06/07/16	09/07/16	09/20/16	Current	UOM
Time on Unit	0	0	0	0	hrs
Time on Oil	0	0	0	0	hrs
Time on Fltr	0	0	0	0	hrs
Oil Maint.	not chg	not chg	not chg	not chg	---
Filter Maint.	not chg	not chg	not chg	not chg	---

CONTAMINATION

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Sample Date	06/07/16	09/07/16	09/20/16	Current	Abn
Silicon	4.3	3.4	2.9	3.3	20
Potassium	5.3	0.5	0.1	13	20
Water (%)	<0.1	<0.1	<0.1	<0.1	0.1
>4µm(c)	194	171	815	59	---
>6µm(c)	23	27	55	32	1300
>14µm(c)	4	5	11	5	160
>21µm(c)	3	2	4	1	---
>38µm(c)	2	0	1	0	---
>70µm(c)	1	0	0	0	---
ISO 4406(c)	12/9	12/10	13/11	12/10	>17/14

OIL CONDITION

Oil Type: 30 GAL of SHELL TELLUS 46

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

Sample Date	06/07/16	09/07/16	09/20/16	Current	Base
Boron	0.0	0.0	0.0	0.2	0.0
Barium	0.0	0.0	0.0	0.0	0
Calcium	43	37	30	47	35
Magnesium	9.3	5.3	1.1	12	11
Molybdenum	0.4	0.1	0.0	0.1	0
Phosphorus	244	258	266	244	266
Sulfur	4534	4662	4543	4123	1847
Zinc	266	266	253	262	276
Visc 40°C (cSt)	45.79	45.47	45.42	44.96	46.99
Visc 100°C (cSt)	---	---	---	---	6.76
AN (mg/KOH/g)	0.317	0.368	0.386	0.409	0.36
BN (mg/KOH/g)	---	---	---	---	

WEAR

All component wear rates are normal.

Sample Date	06/07/16	09/07/16	09/20/16	Current	Abn
PQ	---	---	---	---	---
Iron	0.5	0.3	0.0	0.4	20
Nickel	0.0	0.0	0.0	0.1	---
Chromium	0.0	0.0	0.0	0.0	10
Titanium	0.0	0.0	0.0	0.0	---
Copper	1.9	1.9	1.5	1.5	75
Aluminum	0.0	0.0	0.1	0.1	10
Tin	0.0	0.9	0.0	0.0	10
Lead	0.3	0.0	0.6	0.5	10

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