



MOBILE OIL ANALYSIS REPORT

CONTAMINATION	NORMAL
OIL CONDITION	NORMAL
WEAR	NORMAL

ZBF123165 - Hydraulic System

Unit Make : CASE INTERATIONAL
 Unit Model : 535 STEIGER Serial No : ZBF123165 Date Rec'd : Nov 17, 2016
 Comp Make : {n/a} Cust. Ref No. : {n/a} Sample Date : Nov 8, 2016
 Comp Model : {n/a} Stub No. : KL-M2320621 Diagnostician : Jonathan Hester

RECOMMENDATION

Resample at the next service interval to monitor.

Sample Date	04/28/16	07/26/16	09/06/16	Current	UOM
Time on Unit	6351	6604	6828	7171	hrs
Time on Oil	247	6604	6828	7171	hrs
Time on Fltr	247	208	224	343	hrs
Oil Maint.	not chg	n/a	not chg	not chg	---
Filter Maint.	changed	n/a	changed	not chg	---

CONTAMINATION

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

Sample Date	04/28/16	07/26/16	09/06/16	Current	Abn
Silicon	30	31	26	38	20
Potassium	0.0	0.0	0.0	0.7	20
Water (%)	<0.1	<0.1	<0.1	<0.1	0.1
>4µm(c)	378	226	285	172	---
>6µm(c)	206	123	155	93	1300
>14µm(c)	35	21	26	15	160
>21µm(c)	11	7	8	5	---
>38µm(c)	1	1	1	0	---
>70µm(c)	0	0	0	0	---
ISO 4406(c)	15/12	14/12	14/12	14/11	>17/14

OIL CONDITION

Oil Type: 90 GAL of MIX OF JD/TRC/KENDALL HYD OIL

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

Sample Date	04/28/16	07/26/16	09/06/16	Current	Base
Boron	53	61	62	53	---
Barium	0.0	0.0	0.0	0.1	---
Calcium	3593	3577	3314	2955	---
Magnesium	47	39	32	28	---
Molybdenum	0.2	0.2	0.2	0.2	---
Phosphorus	1011	984	1016	912	---
Sulfur	4758	4713	4866	4286	---
Zinc	1190	1227	1096	985	---
Visc 40°C (cSt)	44.16	44.48	44.7	40.53	---
Visc 100°C (cSt)	---	---	---	---	---
AN (mg/KOH/g)	1.96	2.07	1.900	1.650	---
BN (mg/KOH/g)	---	---	---	---	---

WEAR

All component wear rates are normal.

Sample Date	04/28/16	07/26/16	09/06/16	Current	Abn
PQ	---	---	---	---	---
Iron	56	54	46	52	20
Nickel	0.9	0.6	0.5	0.4	---
Chromium	9.6	8.7	7.3	6.8	10
Titanium	0.0	0.1	0.0	0.0	---
Copper	241	241	171	163	75
Aluminum	7.0	4.3	3.5	2.9	10
Tin	8.8	5.0	0.0	0.0	10
Lead	0.0	1.1	0.6	0.4	10