

Printed on: 17 Oct 2015

Client

Location: Client Location

Unit ID: Advance Mixer 138

Model: Caterpillar - CAT C-10

Machine Type: Engine



Iron is still elevated indicating some internal engine wear. Possible sources: Liners, Gears, Tappets, Rings

All other elements are acceptable. Oil is suitable for continued use

Re-sample at normal intervals

System Admin, 28 Aug 2015

Oil Mobil Delvac 13	300 15w40					
	Oil Mobil Delvac 1300 15w40		Sample ID		2DF96 (P1850)	
Note: Oil Changed	Nata O'l Observati		Sampled on		10 Jul 2015	
Note: Oil Changed		Received on		27 Aug 2015 27 Aug 2015	10 Jul 2015	
		h/m Total		25954	255581	
		h/m Oil		373	397	
		Top up (l.)				
			Warning Limits			
Ir	ron	ppm	0 - 150	61	59	
C	Chrome	ppm	0 - 10	2	2	
<u> </u>	Nickel	ppm		<1	<1	
<u>N</u>	Molybdene	ppm		57	51	
	Aluminium	ppm	0 - 20	1	2	
WEAR METALS L	_ead	ppm	0 - 25	7	5	
\overline{c}	Copper	ppm	0 - 120	4	5	
Ī	Γin	ppm	0 - 10	<1	<1	
\$	Silver	ppm		<1	<1	
T	Titanium	ppm		<1	<1	
\$	Silicon	ppm	0 - 25	4	4	
ASTM D6595-00	Sodium	ppm	0 - 15	8	9	
	/anadium	ppm		<1	<1	
_	Potassium	ppm		<1	<1	
Ī	_ithium	ppm		<1	<1	
C	Calcium	ppm		1197	1121	
<u>N</u>	Magnesium	ppm		827	711	
ASTM D6595-00	Phosphorus	ppm		1195	1307	
	Zinc	ppm		1576	1528	
E	Barium	ppm		<1	<1	
Ē	Boron	ppm		29	29	
MET-MEC-005 F	-uel dilution	%		0	0	
ASTM D445 V	/iscosity at 40°C	cSt		107	111	
ASTM D445 V	/iscosity at 100°C	cSt	12.0 - 18.0	13.8	15.8	
	/iscosity index	°C		129	152	
	ΓAN	mg KOH/g	0.00 - 5.00		6.53	
_	ГВИ	mg KOH/g	5.25 - 11.55	5.55	7.50	
\overline{V}	WaterPPM	ppm		109.9	375.1	
ō	OX	abs/mm2		14.8	15.1	
4 O T 4 T C 4 4 C	NIT	abs/mm2		0.7	0.8	
_	SUL	abs/mm2		20.8	21.1	
ē	Glycol	%	0.0 - 0.5	0.0	0.0	
_	Soot	%wt		0.6	0.7	



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System Admin, 28 Aug 2015

Oil Mobil Delvac 1300 15w40 Sample ID		367D4 (P2248)	2DF96 (P1850)	
Note: Oil Changed	Sampled on	27 Aug 2015	10 Jul 2015	
Note. Oil Changed	Received on	27 Aug 2015	10 Jul 2015	
	h/m Total	25954	255581	
	h/m Oil	373	397	
	Top up (l.)			
	Warning Limits			

Date 17 Oct 2015