

Customer Information

WESTRAC WA: ARCHIVE
ATTN: Valuable Customer

., WA/NSW ,Australia .

Evaluation / Recommendation

The oil hours are incorrect based on the last meter reading and reported oil change.All test results appear normal. Continue to sample at consistent intervals. For enquiries regarding this evaluation, please contact Jim Durning Ph 9377 9757 Sample Notes:

A No Action is Required.

Interpreted by: Jim Durning

Unit Information

Unit Number	CP13	Equip Make	PEGSON	Compart Make	Caterpillar
Location	TROPICANA	Equip Model	1300MXT	Compart Model	C15
Compartment	ENGINE	Equip Serial	130159DF	Compart Serial	BDL04446
Job No		Type	Oil	Lab No	48G1010507

Sample Information

Fluid Change History

Sample Readings

Lab No	Date Taken	Eval	On Equip	On Oil	Oil Added	Fluid Chg	Filter Chg	Type	Grade	SCA	PQI	Fe	Cu	Cr	Pb	Sn	Ni	Al	Si	Na	K
48G1010507	12/Mar/18	A	4752	252	0	Y	Y	FASTRON DIESEL	15W-40		3	12	2	<1	<1	<1	<1	1	7	2	1
47G0682043	22/Jan/17	B	3020	0	0	Y	Y	INSUFF OIL INFO	IOI		4	13	6	<1	<1	<1	<1	1	6	2	<1
47G1031305	23/Mar/16	B	3516	193	0	Y	Y	INSUFF OIL INFO	IOI		7	14	3	<1	<1	<1	<1	1	7	2	2
44G0201135	11/Jan/14	A	12762	252	0			CALTEX DELO 400 LE	15W-40		0	8	1	<1	<1	1	<1	3	5	<1	4

Sample Readings

Lab No	Mo	B	Ba	Mg	Ca	Zn	P	H2O	V40	F	PFc	ST	OXI	NIT	SUL	Li								
48G1010507	225	84	<1	17	3005	1267	1082	0.0	111.8	N	-	11	16	8	21	<1								
47G0682043	213	90	<1	101	2829	1265	1048	0.0	114.9	N	-	9	16	8	20									
47G1031305	246	95	<1	28	3013	1264	1064	0.0	115.3	N	-	7	16	8	20									
44G0201135	80	343	<1	359	1313	1123	925	0.0	133.6	N	-	4	17	8	23									

WT

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THIS ANALYSIS IS INTENDED AS AN AID IN PREDICTING MECHANICAL WEAR. NO GUARANTEE, EXPRESS OR IMPLIED, IS MADE AGAINST FAILURE OF THIS PIECE OF EQUIPMENT OR A COMPONENT PART THERE OF

OUR VISION - TO BE THE WORLDS BEST S.O.S LABORATORY IN ALL KEY MEASURES


SCHEDULED OIL SAMPLING IS AN ACCURATE AND RELIABLE PROGRAM WHICH WILL IMPROVE PRODUCTIVITY AND REDUCE MAINTENANCE COSTS

TAKING A GOOD SAMPLE

- ENSURE THAT ALL EQUIPMENT IS SAFE TO WORK ON AND THAT SAFE WORK PRACTICES ARE FOLLOWED WHEN EXTRACTING SAMPLES.
- ENSURE THE AREA AROUND THE SAMPLE EXTRACTION POINT IS CLEAN AND FREE OF CONTAMINANTS. **DO NOT REUSE ANY PART OF THE SAMPLE KIT TO AVOID CROSS CONTAMINATION.**
- EXTRACT THE SAMPLE FROM HOT, WELL MIXED FLUID PREFERABLY USING THE ENGINE, TRANSMISSION AND HYDRAULIC SYSTEM SOS SAMPLE VALVE, WHERE FITTED .
- WHEN THE SUCTION EXTRACTION METHOD IS USED, IT IS BEST TO TAKE THE SAMPLE FROM MID LEVEL FLUID. **NOTE:** DO NOT TAKE THE SAMPLE FROM THE OIL DRAIN OR FROM THE FILTERS.
- PLEASE USE OIL COMMANDER TO GENERATE THE SAMPLE CARD, ALTERNATIVELY FILL IN THE CORRECT SAMPLE CARD WITH COMPLETE AND ACCURATE INFORMATION. **NOTE:** WHEN INSUFFICIENT INFORMATION IS RECEIVED THE SAMPLE WILL NOT BE PROCESSED. ENSURE SUFFICIENT FLUID IS PROVIDED FOR A COMPLETE TEST

COMMIT TO CONTINUOUS SOS SAMPLING AT **REGULAR INTERVALS**, THIS WILL PRODUCE TREND RESULTS THAT CAN BE EASILY UNDERSTOOD AND GRAPHED.

ADDITIVE & WEAR ELEMENTS	PARTICLES UP TO 8 MICRON IN SIZE ARE MEASURED USING ICP EMISSION SPECTROMETRY									
Fe IRON	Cr CHROME	Pb LEAD	Al ALUMINIUM	Si SILICON	Mo MOLYBDENUM	Na SODIUM	Sn TIN	Mg MAGNESIUM	Ni NICKEL	Ca
CALCIUM										
Zn ZINC	Cu COPPER	Ag SILVER	Cd CADMIUM	Mn MANGANESE	Ti TITANIUM	B BORON	Ba BARIUM	K POTASSIUM	P PHOSPHATE	V VANADIUM
OIL CONDITION	ST SOOT	OXI OXIDATION	SUL SULPHATION	NIT NITRATION	VIS VISCOSITY					
CONTAMINANT	TESTS	W WATER	F FUEL	PCT PARTICLE COUNTING	PQI PARTICLE QUANTIFYING					
			A VISUAL INSPECTION OF ALL NON DARK SAMPLES IS CARRIED OUT FOR LARGE WEAR ELEMENTS OR CONTAMINATION							

A	ACCEPTABLE: ALL TEST RESULTS ARE WITHIN ACCEPTABLE LIMITS. CONTINUE TO SAMPLE AT THE RECOMMENDED INTERVAL.
	ACCEPTABLE (A.I): TEST RESULTS ARE ACCEPTABLE; HOWEVER THERE IS A PROBLEM WITH INFORMATION ON THE SAMPLE CARD. CORRECT OR CONFIRM THE INFORMATION.
B	REPORTABLE: SLIGHT CHANGES IN ONE OR MORE TEST RESULTS HAVE OCCURRED. THE COMPARTMENT NEEDS TO BE MONITORED, RESAMPLED OR CHECKED.
C	UNACCEPTABLE: ONE OR MORE TESTS HAVE HAD A LARGE INCREASE OR CHANGE IN THE RESULTS AND THE COMPARTMENT NEEDS INSPECTION AND OR CORRECTION ASAP.
X	URGENT: ONE OR MORE TEST RESULTS ARE EXCESSIVE AND THE COMPARTMENT NEEDS IMMEDIATE INSPECTION AND OR CORRECTION.

PLEASE NOTE: ENSURE THAT OIL SAMPLE RESULTS CORRELATE WITH OTHER DIAGNOSTIC INFORMATION BEFORE COMPARTMENTS ARE STRIPPED DOWN OR REPAIRS ARE UNDERTAKEN.
ALWAYS RESAMPLE

DID YOU KNOW?

- THAT CONTAMINANTS SUCH AS DIRT ARE RESPONSIBLE FOR MOST ABRASIVE WEAR AS THEY ARE OFTEN HARDER THAN METAL.
- THAT IF YOUR COOLING SYSTEM IS NOT OPERATING WITHIN THE MANUFACTURERS RECOMMENDED TEMPERATURES YOU MAY REDUCE OIL LIFE. INCORRECT OPERATING TEMPERATURES MAY CREATE HARMFUL MOISTURE AND ACIDS TO BUILD UP THAT CAN ALSO REDUCE ENGINE LIFE.
- THAT NEW OIL AND DIESEL FUEL IS OFTEN CONTAMINATED BEFORE USE. ALL NEW FLUIDS SHOULD BE FILTERED BEFORE USE.
- THAT EXTENDED IDLING OR ENGINE LUGGING CAN INCREASE WEAR

- OTHER SERVICES WE SUPPLY (ADDITIONAL CHARGES APPLY).
- MICROSCOPIC PARTICLE ANALYSIS - A REPORT WITH PHOTOS
- COOLANT ANALYSIS
- TBN (TOTAL BASE NUMBER)
- TAN (TOTAL ACID NUMBER)
- CONSULTING SERVICES
- TRAINING
- CONTAMINATION CONTROL