

Customer Information

WESTRAC WA: ARCHIVE
 ATTN: Valuable Customer
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 ., WA/NSW ,Australia .

Evaluation / Recommendation

Are these low machine hours due to a new hour meter or component being fitted?For accurate analysis the oil brand, type and grade are required on the sample card.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: please confirm if details are correct as serial number BPL04446 was provided on sample card

A No Action is Required.

Interpreted by: J Durning

Unit Information

Unit Number CP13 Equip Make PEGSON Compartment Make
 Location TROPICANA Equip Model 1300MXT Compartment Model
 Compartment RIGHT FINAL DRIVE Equip Serial 130159DF Compartment Serial
 Job No Type Oil Lab No 48G0230801

Sample Information				
Lab No	Date Taken	Eval	On Equip	On Oil
48G0230801	15/Jan/18	A	4577	320
43G3010610	13/Oct/13	B	12014	1021
43G2630703	07/Sep/13	B	11570	577
43G1921521	23/Jun/13	B	10993	408

Fluid Change History					
Oil Added	Fluid Chg	Filter Chg	Type	Grade	SCA
0	Y		INSUFF OIL INFO	IOI	
0	Y	N	CALTEX THUBAN GL5EP	85W-140	
0	N	N	CALTEX THUBAN GL5EP	85W-140	
0	Y		CALTEX THUBAN GL5EP	85W-140	

Sample Readings										
PQI	Fe	Cu	Cr	Pb	Sn	Ni	Al	Si	Na	K
9	29	9	<1	<1	<1	<1	2	5	<1	1
25	63	33	1	<1	2	<1	<1	5	2	2
23	64	27	2	<1	<1	<1	<1	3	3	3
13	39	7	1	1	2	<1	<1	5	<1	2

Sample Readings																			
Lab No	Mo	B	Ba	Mg	Ca	Zn	P	H2O	V40	OXI	NIT	SUL	ISO6	ISO14	10µ	25µ	Li		
48G0230801	<1	115	<1	4	13	35	904	0.0	148.9	5	3	20	21	14	785	28	1		
43G3010610	<1	77	2	6	149	164	794	0.0	204.3	9	4	23	22	20	14621	1142			
43G2630703	<1	83	2	6	155	169	805	0.0	215.8	9	4	24	22	20	12227	209			
43G1921521	<1	2	1	6	1208	576	502	0.0	72.2	13	3	21	21	16	1691	40			

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